



TELEPHONE NUMBER:
2617 CENTRAL (3 lines).

Established in
ENGLAND, 1859.]

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET,
LONDON, E.C.

TELEGRAPHIC ADDRESS:
"CHEMICUS, CANNON, LONDON."
[Charged as two words only.]

Established in
[AUSTRALASIA, 1885.]

No. 1,907. Vol. LXXXVIII.

AUGUST 12, 1916

{ Subscription Rate, 12s. 6d. per annum.
Single Copy, 6d. ea. h. Winter and Summer
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TELEGRAMS: "OPIUM."
PHONES: City 984 & 432.



The Best House for
OPIUM *and its*
preparations
PHARMACEUTICAL PRODUCTS
"SILVER CHURN" Dairy Specialities

OLDFIELD, PATTINSON & CO., MANCHESTER

Effervescent Citrate of Magnesia

(So-called.)

Packed in Blue Flats,
shived, capsuled and
labelled.

No. 3 Quality.

2 in 4 oz.
3 in 6 oz.
4 in 8 oz.
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AUGUST 12, 1916.

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Vaseline
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Tooth Paste
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Less 5% discount.



TRENCH OINTMENT.

3/6 per dozen.

Less 5% discount.

Prepared from the formula of a physician of European reputation, it is instantaneously fatal to all forms of body parasites, and also destroys the eggs.

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In collapsible tubes, on cards of 2 dozen each.

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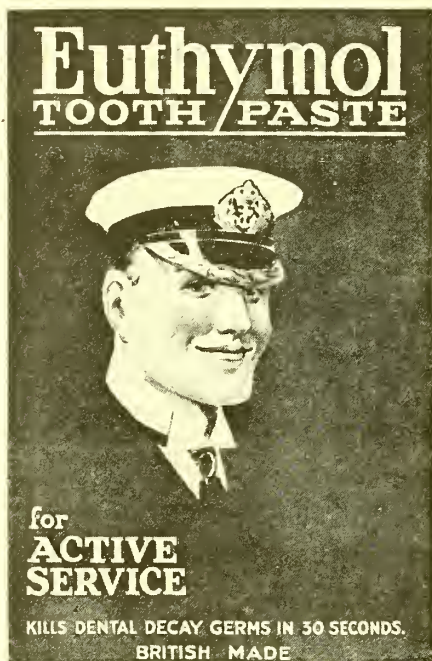
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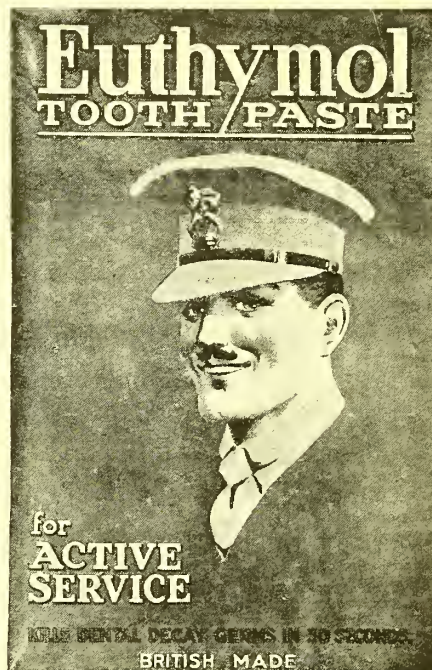
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Below are illustrations of two new posters which, if displayed in a prominent position in or outside your pharmacy, should lead to considerably increased sales of the most efficient and most popular British-made dentifrice available.



No. 56. Euthymol Tooth Paste Poster.



No. 58. Euthymol Tooth Paste Poster.

These posters are being used in our outdoor publicity work, and measure 20 by 30 in. They are printed in a number of colours, the background of the Naval poster being navy blue, and that of the Military poster khaki. They are suitable for fixing to a window, door, mirror, or other prominent place where they will catch the public eye, and when thus displayed should result in an increased share of the passing trade. If you can display two or more of these posters tell us on a *postcard, now*.

In spite of considerably increased manufacturing costs the retail and wholesale prices of Euthymol Tooth Paste remain the same. For terms and full particulars of selling aids apply to

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Laboratories, Hounslow, Middlesex.

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LONDON CHEMICAL WORKS, L^{TD.}

SPECIALISTS IN THE MANUFACTURE OF

BRITISH SALICYLIC ACID

FOR PROMPT AND FORWARD DELIVERY

TELEGRAMS:
"CHEMICAL"

SOUTHALL

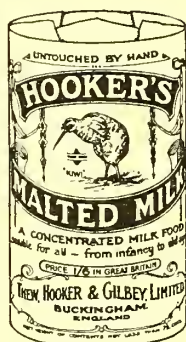
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56

HOOKER'S MALTED MILK

"A complete food." — *Lancet*.

SELLS ENTIRELY ON MERIT.

There is no Higher Quality or Better Value



BRITISH MADE & BRITISH OWNED

DEMAND RAPIDLY INCREASING.

LARGE PROFITS TO SELLERS.

PRICES AND TERMS FROM

THEW, HOOKER & GILBEY, LTD., BUCKINGHAM.

THE MOST ECONOMICAL INFANTS' FOOD.

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FRAME FOOD

ON P.A.T.A. LIST.

SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.

WINGARNIS

Sells readily ALL the time.

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

**IMPORTANT NOTE
TO CHEMISTS
WITHOUT LICENCES**

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.



PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

R. W. GREEFF & Co. offer at lowest prices the following products manufactured in the United Kingdom, Allied and Neutral Countries

(WHOLESALE QUANTITIES ONLY)

Acetanilid	Gallic Acid	Phenacetin
Amidopyrin	Glycerophosphates	Phenazone
Barbitone	Guaiacol Carbonate	Pyrogallic Acid
Bromide of Ammonium	Heliotropin	Potassium Sulpho-Guaicolate
Bromide of Potassium	Hexamine	Quinine and Salts
Bromide of Sodium	Homatropine	Quinine Ethyl Carbonate
Chloral Hydrate	Hydroquinone	Salicylate of Soda
Cinchonine Sulphate and Muriate	Isarol (best Ichthyol substitute)	Salol
Cinchonidine Sulphate	Lithia Carbonate	Sugar of Milk
Citric Acid	Lithol (Ichthyol substitute)	Tannic Acid
Cocain Hydrochlor and Puriss	Mercurials	Tannin Albuminate
Cream of Tartar	Methylene Blue Medicinal	Terpineol
Creosote Carbonate	Methyl Salicylate	Terpine Hydrate
Eucalyptus Oil—B.P. 70%	Peppermint Oil	Theobromine
Formaldehyde	Pepsines, Pancreatin, Peptone and other digestive Ferments	Thymol Crystals
		Vanillin

R. W. Greeff & Co.,

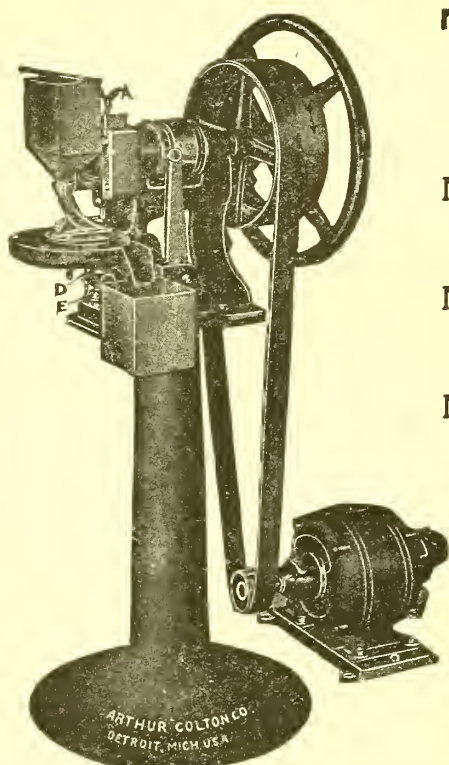
THAMES HOUSE,
QUEEN ST. PLACE,
LONDON, E. C.



MANCHESTER BRANCH:
Lloyds Bank Buildings,
King Street.

ALSO AT
NEW YORK:
R. W. Greeff & Co.,
80, Maiden Lane.

The Vignettes which appear successively in this advertisement indicate the countries from which the products offered are mainly drawn.



TABLET MACHINES

In stock, ready for immediate delivery.

No. 2B MACHINE for tablets $\frac{1}{8}$ in. to $\frac{1}{2}$ in. diameter, including 3 sets of punches and dies.

(This machine has a capacity of 125 tablets per minute.)

No. 3B MACHINE for tablets $\frac{7}{32}$ in. to $\frac{5}{8}$ in. diameter, including 3 sets of punches and dies.

(This machine has a capacity of 100 tablets per minute.)

No. 4 MACHINE for tablets $\frac{1}{2}$ in. to $\frac{3}{4}$ in. diameter, including 1 set of punches and die.

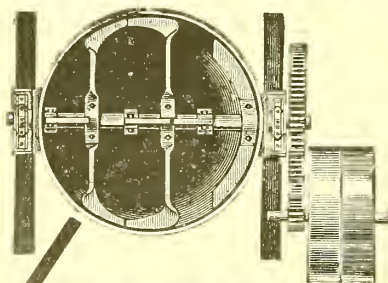
A massive machine of great power. (Capacity 90 tablets per minute.)

Complete Pill Making Plants.
Gelatine Coaters.

Collapsible Tube Filling and
Closing Machines.

JOHN J. GRIFFIN & SONS, LTD.,
Kingsway, London, W.C.

NEW PATENT MIXING MACHINE

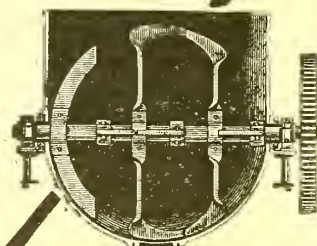


View of Inside from Top.

*Cannot fail to be of advantage
to you for:—*

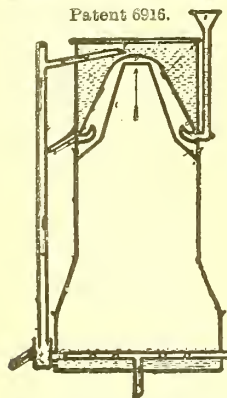
- 1.—AUTOMATIC SELF-CLEANING.
- 2.—LOWEST POSSIBLE DRIVING POWER.
(Stirrer Shaft rotates on Roller Bearings.)
- 3.—LIGHTNING MIXING.
- 4.—RAPID EXHAUST.

W. ROWLANDSON & CO.,
MIXING AND GRINDING SPECIALISTS,
BOUNDARY ST., LIVERPOOL.



Sectional Side View.

Patent 6916.



**TO MANUFACTURING AND
WHOLESALE DRUGGISTS, &c.**

We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb., made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic. Prices as below:—
For producing up to

1½ gallons per hour.	£3 10 0
" 6 " "	£10 0 0
" 9 " "	£12 10 0
" 15 " "	£16 10 0

The few most important places we give below afford evidence of the quality, efficiency and economy of the Steam Stills:—National Physical Laboratory, 2 in use; Imperial College of Science 8 in use; University of Wales; Pharmaceutical Society; Guy's Hospital Bacteriological Department; and many of the leading Breweries and Drug Houses, etc. etc.

Pamphlets & particulars forwarded on application

Estimates submitted free if required for supplying and fitting complete.

BROWN & SON, Alembic Works, Wedmore St., Holloway, N.
(Late 25 Charlotte Street, N.)

HAVE YOU RECEIVED OUR
NEW CATALOGUE
OF BOTTLING, TUBE- &
TIN-FILLING MACHINES,
MIXERS, EMULSIFIERS,
ETC.

*Up-to-date Plant at Low prices.
Something to meet every need.*

WRITE—
ROBERTS' PATENT FILLING MACHINE CO.,
33 ROUNDCROFT STREET, BOLTON, ENGLAND.

"FARRISOL"

— ENGLISH MADE —

WHITE MEDICINAL OIL, B.P.

(PARAFFINUM LIQUIDUM, from Pure Russian Oils.)

PURE ENGLISH REFINED SPERMACETI, Paraffin Wax, Ceresine, Stearic Acid, Pure Olive Oil, Castor Oil, Palm Oil, Peach Kernel Oil, Cod Liver Oil, Slab Oil, "Farrisol" Paraffinum Liquidum B.P., "Farrisol" Snow White Opaque Jelly B.P., Lanoline, White Oils, &c. Oil Refiner to H.M. Government.

GENUINE & COMMERCIAL BEESWAX in $\frac{1}{2}$ oz., 1 oz., 2 oz., and 4 oz. Rounds.

WAXES of EVERY KNOWN KIND.



SAMPLES MATCHED AND LOWEST PRICES SUBMITTED.



WAXES PREPARED FOR SPECIAL PURPOSES.

The only actual Manufacturing Wax Chandler in the City of London.

CHARLES FARRIS, 71 Bishopsgate, London, E.C.

Works : HELMET COURT, BISHOPSGATE, E.C.

Warehouses and Stores : 91 & 93 BISHOPSGATE, and 12 WORMWOOD STREET, E.C.

Telephones : LONDON WALL 9397 and 9298.

Telegrams : "WAXINESS, LED, LONDON."

MONTHLY JOTTINGS

THERE is no more profitable method of advertising than the distribution of a Monthly Store Paper issued under your own name and advertising your own specialities. To get up your own entails a lot of time and expense.

"MONTHLY JOTTINGS" is a well-written advertising monthly for the Pharmacist to distribute from house to house. It is written by expert advertisers, and its regular distribution builds permanent and profitable business, yet its cost by reason of our large output is less than that of cheap and badly-written and printed handbills.

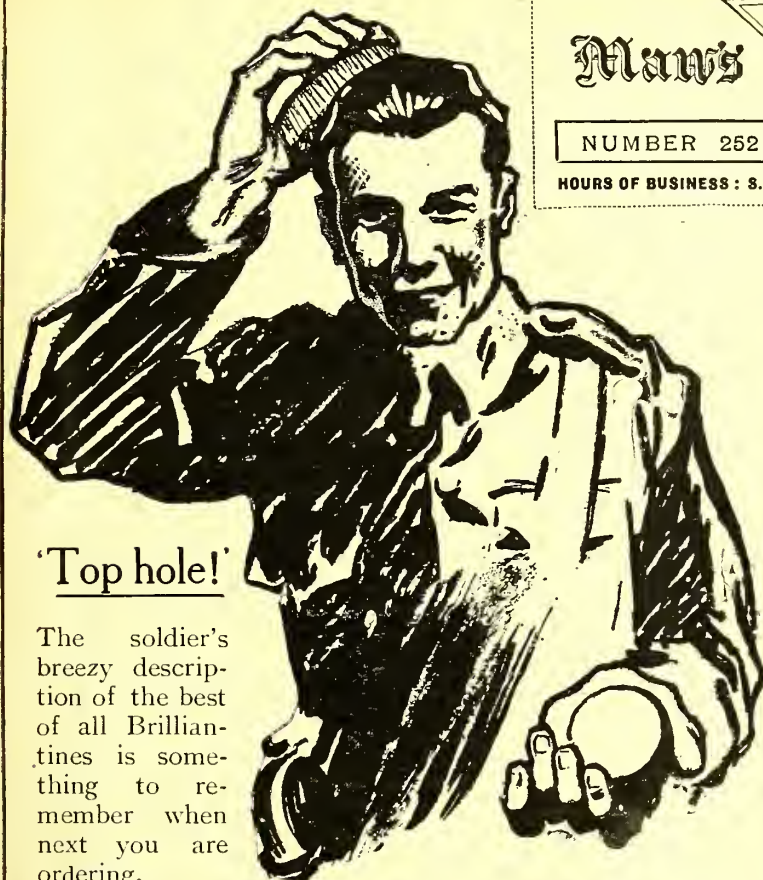
500	-	cost 12/-
1,000	-	" 17/6
2,000	-	" 15/6 per 1,000.
5,000	-	" 13/6 " "

One Pharmacist says : "We distribute 2,000 monthly, and the extra optical business alone more than pays the entire cost of the paper and its distribution."

Only one client in a small town or district of large town accepted.

If we have no client in your town we will gladly send you a Specimen Copy and full particulars on request.

THE HOLOYD ADVERTISING SERVICE
323 Coventry Road, BIRMINGHAM.



'Top hole!'

The soldier's breezy description of the best of all Brilliantines is something to remember when next you are ordering.

"Active Service" Brilliantine fills the campaigner's requirements and fits his kit-bag. There is no risk of the Brilliantine leaking through, screw-cap tins obviate this risk.

The Brilliantine itself is a solidified preparation, and forms a perfect, lasting, and stimulating dressing for the hair, and contains the tonic properties of Bay Rum.

Let this smiling Tommy coax customers into your Pharmacy. This happy illustration is reproduced from the "Active Service" Brilliantine Show-card supplied with first orders. It is printed in red and black on khaki—effective and topical and measures 9 in. by 7 in.

'ACTIVE SERVICE'

SOLIDIFIED

BRILLIANTINE

"The 'Brill' that WILL"

4/9
DOZEN

Maw's

S. MAW, SON & SONS.
(GPO BOX NO 54)
7-12 ALDERSGATE ST.
LONDON E.C.

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NUMBER 252

AUG. 12, 1916

HOURS OF BUSINESS: 8.30 a.m. — 5.30 p.m.

CLOSE AT 1 p.m. SATURDAYS

The Real Thing

A passive interest in a thing is often awakened to a more virile appreciation by actual contact with the same object.

We have all, at some time or other, experienced that strange mental thrill on beholding some relic of a great personage or a historic event. An examination of Queen Victoria's toys in Kensington Palace, or an inspection of Shakespeare's house at Stratford-on-Avon, will act as a stimulant to one whose knowledge of history or poetry is guided by hearsay.

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A captured German helmet or a shattered shell case has done more to arouse interest than a hundred newspaper reports.

To hold is better than to behold.

Many of our customers, present and prospective, are interested in the lines we introduce from time to time.

They mentally resolve to ask to see samples when Maw's representative calls.

Memory is not infallible. For instance, you may remember to ask him to show you samples of our new "Vel-fin" (Regd.) Waterproof Sheetings—or you may not!

There are so many good points about this series of British-made standard Sheetings—they will not discolour, harden or crack, and are acid, alkali, urine, blood and ether proof, and can be sterilised in boiling water—that we particularly wish our customers to become acquainted with the actual materials, and have prepared sample cards of our single-faced and double-faced drab and red "Vel-fin" Sheetings. Let us know which quality or qualities you are interested in. We will send you "the real thing."

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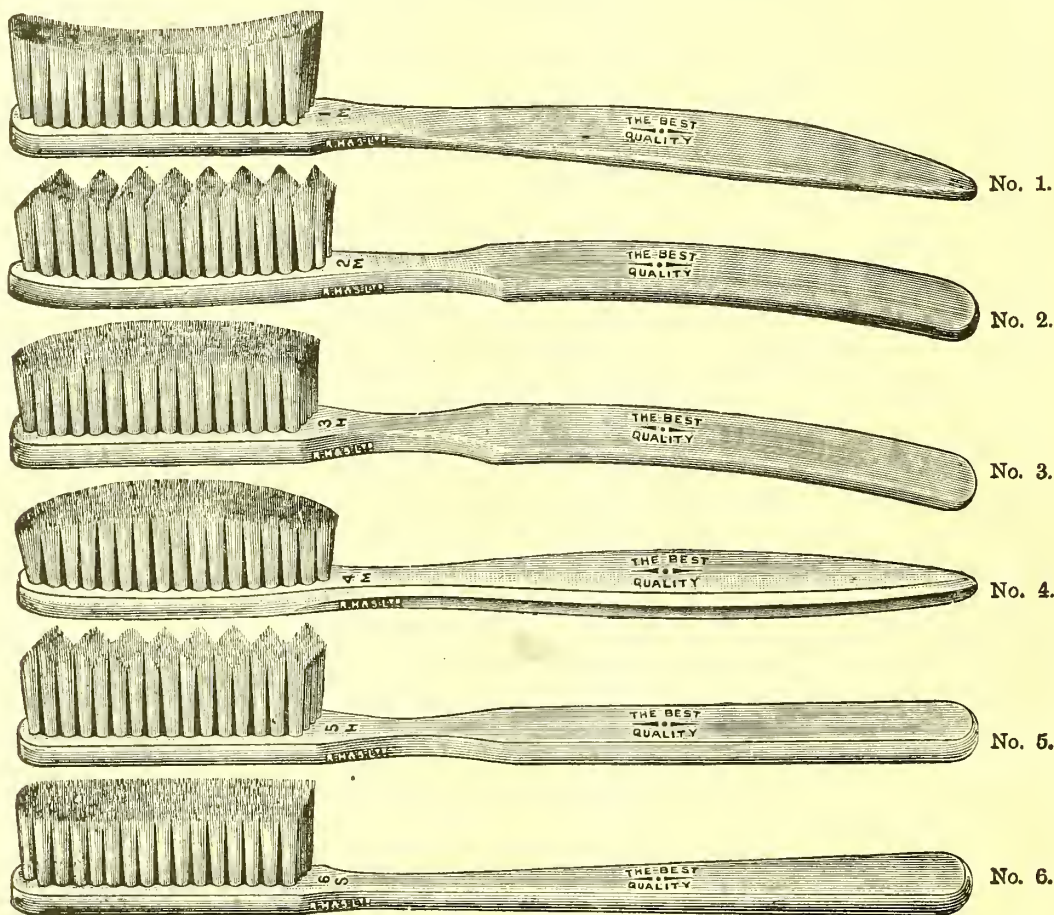
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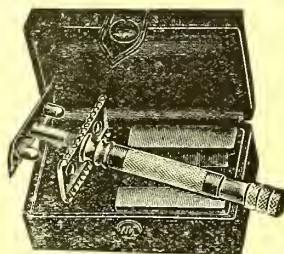
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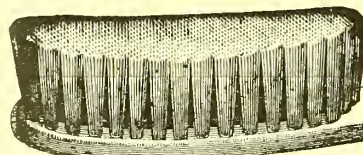
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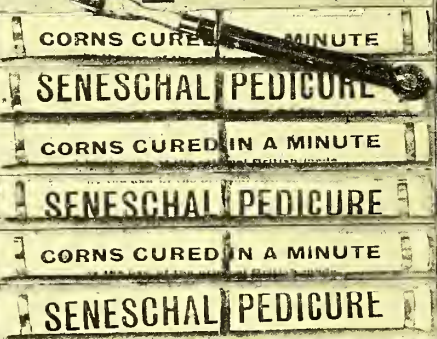
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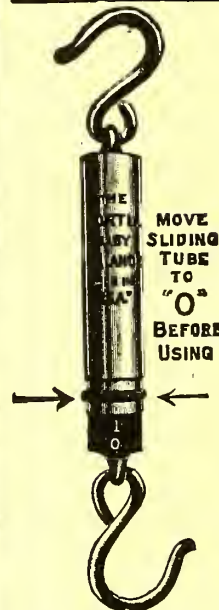
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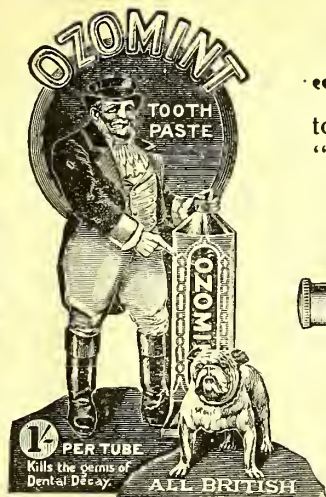
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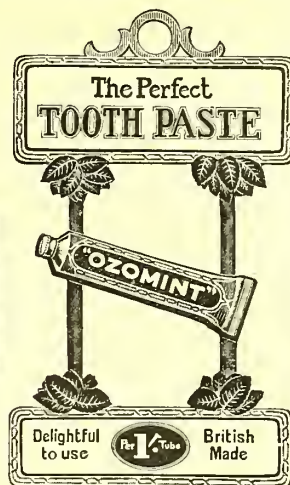


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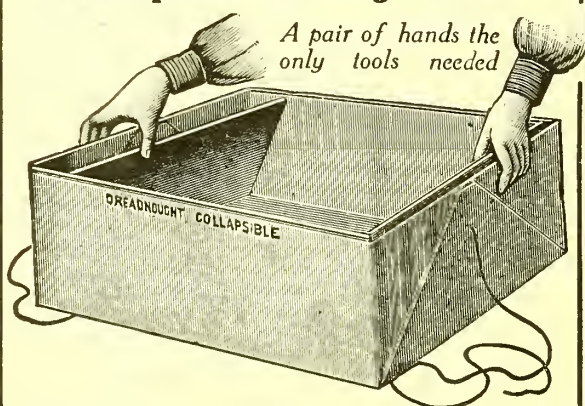
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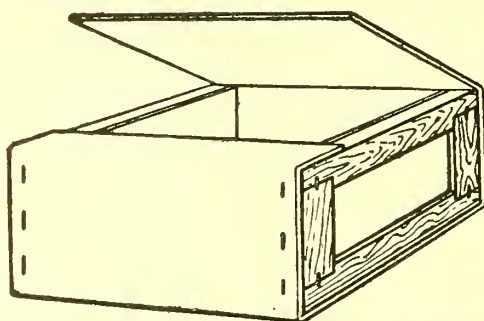


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Are reluctantly compelled to advance the prices of the following preparations, but, as the protected retail prices are also increased, the Trader's profit is still large.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins		7½d.	5/-
" " " " " "		1/2	10/-
" " " " " "	bottles in } cartons }	1/6	12/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

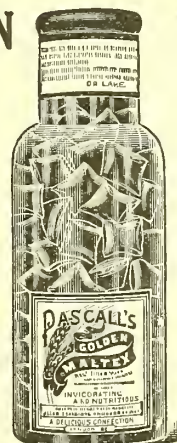
LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema } 1/6 12/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

PASCALL'S GOLDEN MALTEX

**Contains
25%
Pure
Malt
Extract**



**of
especial
food value
for
Children.**

† Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.

† Order through your Wholesale Druggist, or direct from the manufacturers,

JAS. PASCALL, Ltd., LONDON, S.E.

LOOFAHS

Owing to the enormous advance in freight and shortage of ships, the price of these goods is now considerably advanced. I can, however, offer for a short time a few bales as follows :

SIZES (approx.)

6"—8"	-	8/-	per gross	} Net Cash with Order
8"—10"	-	12/-	" "	
10"—12"	-	24/-	" "	
12"—14"	-	36/-	" "	
14"—16"	-	48/-	" "	

TERMS :—

Carriage free in U.K. for £1 parcels. Foreign and Colonial Customers please include Parcels Post rate approximately.

THOMAS SWALES,
24 Butts Court, and 89 Albion St.,
LEEDS, ENGLAND.

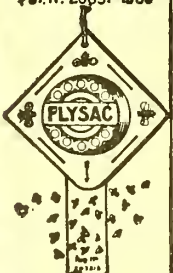


THE DOOMO AIRSHIP FLY BAND
1d each
CUTTING ON BOTH SIDES


THE DOOMO AIRSHIP FLY BAND
A wide band sticky on both sides, unrolling like a blind.
Proprietors of FLYDOOMO—
the old Favourite Fly Paper.
Jno. H. Smith & Co.
NEWARK-ON-TRENT.

REAL FLYCATCHERS!

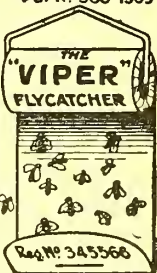
THE FLYSAC
Reg. Trade Mark
Pat. No. 20831-1909



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Pat. No. 4172-1899



THE VIPER
Reg. Trade Mark
Pat. No. 566-1909



Prompt Deliveries! Big Profits!
Quick Returns!

NO EXPERIMENT, BUT A PROVED SUCCESS.

WELL MADE AND WELL ADVERTISED.

Send for Samples. They bear out our claims.

SOLE MAKERS AND PATENTEES:

KAY BROTHERS, Ltd., Stockport.

Nat. Tel. 247. Telegrams: "KAY STOCKPORT." (1)

(30 years' experience in the manufacture of Birdlimes and Flygums.)

The Best of all Fly Catchers



TUNBRIDGE & WRIGHT'S Fly Cemetery

The original and best of all Sticky Fly Papers, 6/- per gross net, carriage paid. Cash with order.



TUNBRIDGE & WRIGHT'S Cemetery Fly Tape

Very neat, simple, and efficacious, 7/6 per gross net, carriage paid. Two gross lots and up 7/- per gross, carriage paid. Cash with order.



TUNBRIDGE & WRIGHT'S Cemetery Fly Band

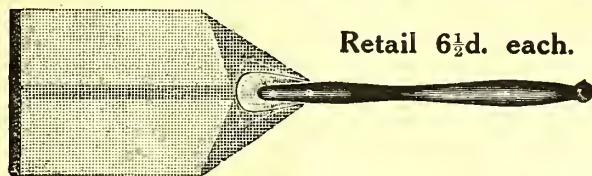
The neatest, simplest, and cleanest of all band catchers. Packed in boxes containing three dozen. 8/- per gross net, carriage paid. Cash with order.

TUNBRIDGE & WRIGHT READING

London Depot—46 FARRINGTON STREET, E.C.
N. of England—4 Gallowgate, NEWCASTLE-ON-TYNE.
Telegrams: "FLIES READING." Telephone: 496 Reading.

EVERYONE LIKES THEM BETTER THAN FLY PAPERS, &c. A BRITISH-MADE FLY KILLER.

Buy the
"Settler"
Fly Bat.



Retail 6½d. each.

Send a P. O.
for 4/6 for a
sample dozen,
post free.
Large Stocks.

PROCTER BROS. (Wireworks) Ltd., LEEDS.

J. BARRACLOUGH & CO. WATER LANE, LEEDS.

Packers of Own Name and other Specialities

Baking Powders	Liver Salt
Egg Powders	Stain Varnishes
Custard Powders	Lacquers
Flavouring Essences	Furniture Cream
Original Health Salt	Fly Papers
Premier Health Salt	Fly Traps — "Web"
"Spa" Health Salt	3½ & 6½ Lin. Liq. and
Exhibition Health Salt	Honey Balsam
	7½ Liq. Aniseed & Honey

INQUIRIES SOLICITED.

Near the British Museum.

KINGSLEY HOTEL

HART STREET, BLOOMSBURY SQUARE, LONDON.

Opposite the British Museum.

THACKERAY HOTEL

GREAT RUSSELL STREET, LONDON.

These well-appointed and commodious TEMPERANCE HOTELS have Passenger Lifts, Bath Rooms on every floor, Lounges and spacious Dining, Drawing, Writing, Reading Billiard and Smoking Rooms.

Perfect Sanitation. Fireproof Floors. Telephones. Night Porters.

**BEDROOM, BREAKFAST, ATTENDANCE AND
BATH, PER NIGHT PER PERSON - 6/6**

Full Tariff and Testimonials on application.

TELEGRAPHIC ADDRESSES { Kingsley Hotel, Thackeray Hotel,
"Bookcraft London." "Thackeray London."
Telephones: Museum 1232, Museum 1230.

BROWN'S FAMOUS 'FLIBAN'

"THE DEADLY HOUSE FLY."



30 inches long.
2½ inches wide.

Wholesale Houses desiring to handle the MOST EFFICIENT, NEATEST, AND CLEANEST BRITISH MANUFACTURED ARTICLE, should handle

**THE WORLD-RENOWNED
'FLIBAN'
FLY CATCHER.**

HAS NO SUPERIOR.

Specially made to withstand varying climatic conditions.

Insures repeats and permanent business.

Test this when all others fail.

Samples and prices on application. Prompt deliveries guaranteed.

**THE BROWN MANUFACTURING CO., Ltd.
LETCWORTH, HERTS, ENG.**



**CHRISTY
STRONG'S**

"COBWEB" & "GRIP" FLY PAPERS

Per Gross **6/-** Carriage Paid.

**The "Strong" Fly String
8/- Per Gross.**

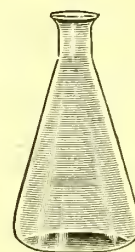
Postal Address :

**115 CHATHAM STREET,
READING.**

Telegraphic Address: "STRONG READING."



CHEMICAL GLASSWARE.



BRITISH MADE.



BRAND.

Manufactured by WOOD BROS. GLASS CO., Ltd., BARNSELY.

STOCK IN LONDON.

IN TWO QUALITIES: Ordinary and Highest Resistant.

AGENTS:

WILLIAM TOOGOOD, Ltd., 77 Southwark St., London, S.E.

PRICE LIST ON APPLICATION.

TEL: 65 CITY
TELEGRAMS
"Forshapco,
Westcent,
London"

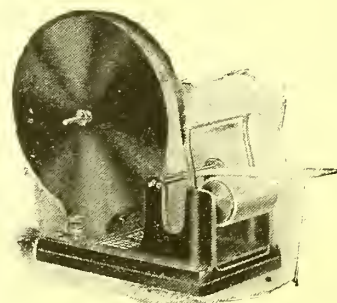
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OFFICES.
GREAT TURNSTILE •
HIGH HOLBORN • LONDON •
W.C.

FORD, SHAPLAND & CO.

HOW do you seal your Parcels ?



This little machine, the "DEMON," will secure them with Gummed Paper Tape NEATLY, QUICKLY & EFFECTIVELY at a fraction of the cost of string or sealing-wax.

Send a postcard for particulars to
FAIRE BROS & CO., Ltd., Leicester
And 19 Fore Street, London, E.C.

SCIENTIA

B & B
Co.

DILIGENTIA

CONCENTRATED FLORAL OTTOS.

Burgoyne's Floral Ottos have been used by Pharmacists for some years. They have stood the test of time and competition.

SUPPLIED IN THE FOLLOWING ODOURS :—

Otto Bouquet	Otto Lily of the Valley
" Carnation	" Mignonette
" Eau de Cologne	" Narcissus
" Heliotrope	" New-Mown Hay
" Honeysuckle	" Opoponax
" Hyacinth	" Parma Violet
" Jasmin	" Sweet Pea
" Jockey Club	" Violet
" Lavender Water	" Wallflower
" Lilac	" White Rose

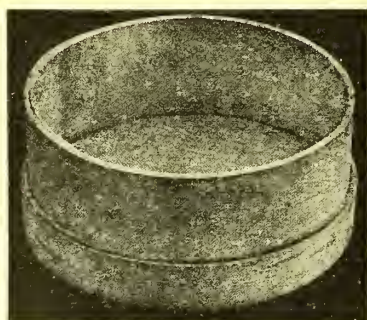
Otto Wood Violet

SUPPLIED IN ONE-OUNCE BOTTLES.

Burgoyne, Burbidges & Co., Ltd.
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Telegrams : "Zotalene, 'Phone LONDON."

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WIRE SIEVES,

ALL KINDS.

Testing Sieves, Drum Sieves, Wire Gauze, Wire Splints, Wire Fracture Cradles, Bottle Baskets & Wire Trays, Copper, Brass, Phosphor Bronze.

PROCTER BROS. (Wireworks) Ltd., LEEDS.

MORRIS, LITTLE & SON, Ltd., DONCASTER

SHEEP DIPS (Poisonous and Non-Poisonous) **of all kinds.**

DISINFECTANT SOAPS of all kinds.

DISINFECTANTS of all kinds, including **LYSOL SUBSTITUTE** and High Co - Efficients.

Largest Makers of Non-Poisonous Sheep Dip in the World.

STRAW HAT CLEANER.

If you are packing
this line, send for
our Sample Envelope.

JAMES TOWNSEND & SONS,

Chemists' Printers,

EXETER & LONDON.

PRICES PROTECTED.

Dr. Allinson's Food Preparations.

Food for Babies, Prepared Barley, Brunak, Power, N.-F. Cocoa, Biscuits, Soup, Wholemeal, &c.

NOTICE TO THE TRADE

We issue a list of WHOLESALE HOUSES who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return. See trade mark on all our goods: "T. R. ALLINSON." *None Genuine Without.*

NATURAL FOOD COMPANY, LIMITED,
Cambridge Rd., Bethnal Green, LONDON, E.

Handbills, Booklets, Showcards, &c., Free.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.

BRITISH MADE

**SCENT SPRINKLERS
COLLAPSIBLE TUBES**
Decorated Tin Boxes & Canisters

Manufactured by

The JOHN DALE Mfg. Coy.,
NEW SOUTHGATE, LONDON, N.

EXCEPTIONALLY PURE AND BRITISH MADE
BY BURROUGHS WELLCOME & CO.

TRADE MARK **'WELLCOME'** BRAND

Atropine Sulphate

Supplied in bottles of 60 grs.

Benzamine Lactate, B.P. and Benzamine Hydrochlor.

Identical chemically, physically and therapeutically with
EUCAINE LACTATE and HYDROCHLORIDE

Satisfactorily replace Cocaine as a dental and general
local anæsthetic.

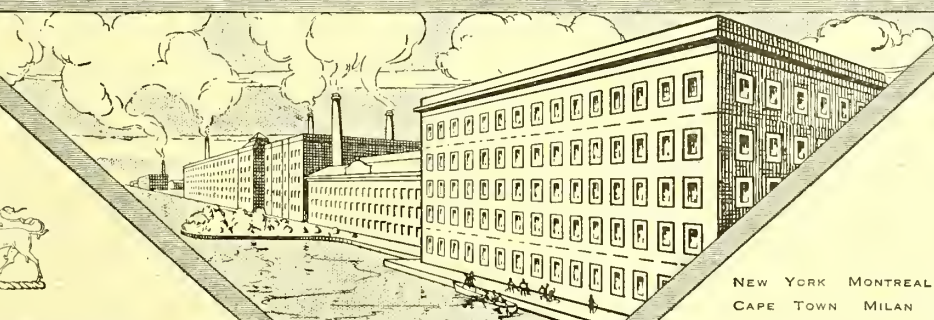
Supplied in 1/2 oz. bottles

PRICES ON APPLICATION

Both products are made throughout at the 'Wellcome' Chemical
Works, Dartford, Kent.



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LONDON



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CHEMICAL
WORKS

NEW YORK MONTREAL SYDNEY
CAPE TOWN MILAN SHANGHAI
BUENOS AIRES BOMBAY

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Head Office should be addressed to

SNOW HILL BUILDINGS,

LONDON, E.C.

London Exhibition Room: 54, Wigmore Street, W.

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TO ALL LARGE USERS WHO WISH TO CONTRACT for next winter's supply of C.L.O. Emulsion, we are open to favourably book Contracts to supply **SANATORIUMS, HOSPITALS for PULMONARY DISEASES, INFIRMARIES, UNION INSTITUTIONS. SHIPPERS, EXPORTERS & WHOLESALE BUYERS**, in either Bulk or Bottled, should write for Sample & Price.

Our CREAM EMULSION is an IDEAL PRODUCT, PALATABLE, CREAMY and STAPLE.

CUPAL, LTD. EMULSION SPECIALISTS, BLACKBURN.

'Panopepton'

'PANOPEPTON' presents the entire edible substance of prime lean beef and best wheat flour in a perfectly soluble, diffusible, and absorbable form. It is at once a grateful stimulant and food.

For an adult the usual portion should be a dessertspoonful to a tablespoonful several times a day and at bedtime.

Supplied in 6-oz. and 12-oz. bottles at **27/-** and **46/-** per doz.

Glycerinum Pepsini Concentrated (Fairchild)

50% stronger than the product of the 1914 B.P.

To make 24 oz. GLYCERINUM PEPSINI B.P.

R. Glycerinum Pepsini, Concentrated (Fairchild)	...	...	...	...	...	...	16 oz.
Acid Hydrochloric	...	...	...	...	...	...	40 minim.
Glycerin	...	...	...	...	...	...	4 oz. 6 drms.
Distilled water, sufficient to produce	...	...	...	...	...	...	24 oz.

Supplied in 4 oz. and 16 oz. (fluid measure) at 16/- and 48/- per doz., and in Winchester Quarts at 18/- each.

These prices are subject to B. W. & Co.'s Terms.

GLYCERINUM PEPSINI CONCENTRATED (FAIRCHILD) may be obtained from all Wholesalers.

Originated and Manufactured by
FAIRCHILD BROS. & FOSTER, New York
And 64/65 Holborn Viaduct, London, E.C.

Agents for Europe, Asia, Africa and Australasia :
BURROUGHS WELLCOME & CO.,
LONDON, SYDNEY AND CAPE TOWN.



A Weekly Journal of Pharmacy and of the Chemical and Drug Trades
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of eighteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

Subscription Rates.

Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6d.; Summer or Winter Number, 1s.; *Diary* 3s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12s. 6d., franco.

Цена годового абонемента: Газета еженедельно и Дневник раз в год 12 шиллингов 6 пенсов с пересылкой.

Precio de suscripcion annual: el periodico una vez por semana, y el agenda una vez por anno 12s. 6d., franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.

Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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Editorial Memoranda.

OUR EDUCATIONAL NUMBER.—For nearly half a century we have published an annual Educational Number of the *C. & D.*, giving all information in regard to education and examinations in pharmacy, medicine, dentistry, veterinary surgery, and science. This year's number is now in preparation, and will be published on Saturday next, August 19.

"**C. & D. DIARY.**" 1917.—Our annual *Diary* has, in consequence of war conditions, to go to press somewhat earlier this year, and the work of revision has already commenced. We ask advertisers to assist us with their friendly co-operation in the matter of advertisements by forwarding copy and instructions without delay to the Publisher, 42 Cannon Street, London, E.C. The Editor will be addressing Associations and others soon, and prompt replies to his requests are solicited.

KNOWN, ADMITTED, AND APPROVED REMEDIES.—Since the Divisional Court of King's Bench gave, in 1903, the important and fundamental decision as to "known, admitted, and approved" remedies, raised in *Farmer v. Glyn-Jones*, we have reserved a space in the *C. & D. Diary* for these formulæ. Our *Diary* was the first book of the kind which the Revenue authorities accepted as an approved book of reference. The space reserved in the 1917 *Diary* for such formulæ will be limited, so that true copies of them, with doses and other directions for use, should be sent to the Editor *C. & D.*, 42 Cannon Street, London, E.C., as promptly as possible.

ACCORDING to the "Evening News," "Chemical herbs are being grown on Ditchling Common, Sussex." Such interesting native plants as the lesser coal-tar and the blue-flowered borax should figure in the collection.—*Punch*.

European War News.

Enemy Firms to be Wound Up.

F. Prager, 21 Mincing Lane, London, E.C., rubber merchant. *Controller:* R. J. Knight, 3 Raymond Buildings, Gray's Inn, London, W.C.

C. P. Goerz Optical Works, Ltd., 4 & 5 Holborn Circus, London, E.C., opticians, etc. *Controller:* C. Field, Broad Street Avenue, London, E.C.

Duron & Co., Ltd., Bank Buildings, 1 Manchester Road, Bradford, manufacturers and dealers in oils, fats, and chemicals. *Controller:* W. E. Harding, Central Bank Chambers, Leeds.

Export Notice.

The Board of Trade has issued the following notice regarding exports to the United States: The attention of the Board of Trade has been called by the Foreign Office to cases which have occurred in which British firms have consigned to one of his Majesty's Consular officers in the United States of America on account of certain United States approved importers materials in connection with which the importers are required to sign (and in the case of any previous shipments received have signed) guarantees before a British Consular officer to the effect that they will take certain precautions to prevent the materials from reaching the enemy. On arrival of the particular shipments in question, however, the importers have in certain cases refused to sign the requisite guarantees in respect of them, and the British exporters have been compelled to store the goods, with little prospect of selling them to other importers prepared to sign the guarantees. The Board of Trade suggests that, with a view to obviating such difficulties, exporters of such materials should include in their contracts with United States importers a condition that the necessary guarantees will not be withheld in the case of any of the goods covered by the contracts.

Prohibited Exports and Imports.

FRANCE.—The Board of Trade is in receipt of copy of a French Presidential Decree published in the "Journal Officiel" for July 29, which prohibits the exportation and re-exportation (after warehousing, transit, transhipment, or under the "temporary admission" *régime*) from France of the following articles: Acetones, and crude or refined substances which can be used for preparing acetones; animal wax, crude and worked; coffee extracts; menthol (essence of peppermint); monazite (ore of cerium, lanthanum, and thorium); tea. Exceptions to these prohibitions may be accorded under conditions to be laid down by the Minister of Finance.

GERMANY.—A Decree of the Imperial Chancellor of July 11 prohibits the exportation of artificial perfumes, such as coumarin, heliotrope, vanillin, etc., used for the preparation of aromatic products; also eau de Cologne and other perfumes containing ether or alcohol; cosmetics, hair-dyes, etc.; aromatic extracts, tinctures, or waters; aromatic vinegars and aromatic waters that do not contain ether or alcohol; aromatic powders, tooth-pastes, and other perfumes or cosmetics that have not been especially mentioned.

SWEDEN.—The following articles have been added to the list of goods which are now prohibited for exportation from and transit through Sweden: Preserved fruit and berries; colouring matter, also in solid state, not containing spirit; punch and other liqueurs, except Benedictine; juice of berries and fruits; train oil of fish-liver.

The Supply of Local Anæsthetics.

The Home Secretary has issued a statement that the Government has arranged to make available a sufficient supply of novocaine for use as a local anæsthetic, in place of cocaine, by practising dentists, whether registered or unregistered. As the supply is not immediately available in the particular forms usually required for dental purposes, and three or four weeks may elapse before it can be made available in these forms, he has granted a temporary permit to all persons *bona fide* engaged on July 28, 1916, in practising dentistry, but not registered under the Dentists Act, 1878, to purchase preparations containing not more than 1 per cent. of cocaine, adapted for use as local anæsthetics in connection with dental work, subject to the condition that the preparations are used as local anæsthetics in connection with such work and for no other purpose. The permit will remain in force until September 15 next. After that date it will not be legal for unregistered dentists to continue to use cocaine preparations. Public notice will be given in good time stating how and where the novocaine preparations can be obtained. The Secretary of State also desires to call attention to the fact that cocaine is being manufactured on an increasing

B

scale in this country, and it is probable that considerable supplies of this drug also will be available shortly to meet the demand for local anaesthetics for dental purposes.

[The period during which cocaine solution may be obtained has since been extended. See p. 46.]

Contraband or Suspected Goods.

The following continues the gazetted list of drug-trade goods which have been seized under the Customs laws as being of suspected enemy origin. The nature of the goods is first mentioned, then the consignors (1) and the consignees (2):

Perfumery.—(1) S. Borgensen, Copenhagen; (2) A. Chirinos, A. Delgado, L. Fontana, V. Mazzei, V. Mancini, A. Merca, A. Corrasquera, O. Riboli & Co. (all of Maracatho). (1) E. Sachsse & Son, Leipzig; (2) Banco Aleman, Transatlantico, Santiago. (1) S. G. Klunk, Rotterdam; (2) A. Laurens, Temico, Chili; Ribas & Co., Santiago. (1) P. Klimbt, Rotterdam; (2) Ribas & Co., Santiago. (1) Wessoe, Copenhagen; (2) Consul Luise, Calderas, Chile. (1) L. & R. Phillip, Goteborg; (2) Hijos de Luce de Vena Sen C., Seville. (1) C. Karup, Copenhagen; (2) Prieto Hermanos, Habana. (1) E. Stephensen, Copenhagen; (2) Indische Handelscompagni, Batavia. (1) L. V. Andersens, Copenhagen; (2) Claus & Schroeder, Porto, Brander Bergstrom & Co., Buenos Aires. (1) M. Koppel, Copenhagen; (2) E. Riezel, Valparaiso. (1) Interchange, Ltd., Copenhagen; (2) A. Jacobs, Panama. (1) Seger Klunk, Rotterdam; (2) Guttman Maurer & Co., Santiago. (1) American Express Co., Copenhagen; (2) E. Fuller, M. Video. (1) J. H. Levinson, Hellerup; (2) V. T. Domonech, Valencia.

Military Tribunals' Decisions.

The following have been announced since our last issue: ASHTAD.—Mr. B. C. Browell, chemist and druggist, conditional exemption.—Mr. G. L. Grinstead, chemist and druggist, two months' exemption.

CASTLEFORD.—The application of Mr. T. C. Binks, chemist and druggist, on behalf of his assistant, Henry Jackson, was refused.

KINGSTON-ON-THAMES.—Mr. H. G. Hodder, chemist and druggist, applied for the exemption of an assistant, who was allowed until August 31.

LAMBETH.—L. Wolfson, a dispenser, who claimed that he is in a certified occupation, was refused exemption.

MERTHYR TYDFIL.—Conditional exemption was granted to Edward Edwards, assistant with Mr. Richard Davis, chemist and druggist.

OXFORD.—Exemption until September extended to H. A. Fordham, chemist's assistant.

PORTLAND.—H. E. Miller, apprentice to Boots, Ltd., was exempted until October 31.

PUDSEY.—An assistant with Mr. J. W. Golightly, chemist and druggist, Pudsey, has been granted exemption until November 1.

ST. HELENS.—The appeal for exemption to the Lancashire Appeal Tribunal of Mr. G. L. Thomas, chemist and druggist, with Mr. W. T. Salthouse, was dismissed. Exemption was granted in March to enable applicant to pass his examination, which he has done since.

SOUTHWARK.—A medicinal-pastille maker with J. M. Smith & Co., Arthur Street, Walsworth, S.E., was granted three months' exemption.—David Lam, manufacturing chemist, Southwark Bridge Road, S.E., was also granted three months' exemption.

WANDSWORTH.—The claim for exemption on domestic grounds of J. S. Milligan, chemist's assistant, 34 Denton Street, was disallowed.

WATFORD.—Conditional exemption has been granted to Mr. A. H. Paton, chemist and druggist, and Mr. H. E. Wood, Ph.C.

Personal.

PRIVATE RICHARD DONAGHY, brother of Mr. J. A. Donaghy, Ph.C., Broadway Pharmacy, Ballymena, has been wounded in action.

MR. W. Y. MORRIS, second son of Mr. J. C. Morris, chemist and druggist, Brecon, has been gazetted engineer-lieutenant in the Royal Naval Reserve.

PRIVATE JOHN ROBERTSON, who prior to enlisting in the King's Own Scottish Borderers, was employed as a chemist with Dandie & Co., chemists, Perth, is reported as missing.

SECOND-LIEUTENANT JOHN DENTON, West Riding Brigade, Royal Field Artillery, a member of the firm of Denton Bros., Keighley, is suffering from "gas" poisoning. Lieutenant Denton is a Fellow of the Chemical Society and an "old boy" of the Bradford Technical College.

CORPORAL ERNEST HARTLEY, of the Royal Fusiliers (Public Schools Battalion), was wounded in action recently, and is now in a Liverpool hospital. The report that he had died of his wounds is, we are glad to say, untrue. He was connected with Messrs. Hartleys, chemists and druggists, Nelson.

MR. J. R. CAVE, chemist and druggist, 52 Nevill Street, Southport, has received an interesting account of the battle of Jutland from a former assistant, who is now surgeon on a modern and large destroyer. It finishes: "The Huns 'bunked' at full speed when Admiral Jellicoe appeared, and we waited most of next day to find stragglers—but no luck."

CORPORAL JOHN TREVOR WESTON and PRIVATE ARTHUR EYTON WESTON, sons of Mr. J. H. Weston, pharmacist, Runcorn, were wounded in action in France on July 30. At the same time and place a third son of Mr. Weston, Private Seymour Glynne Weston, was killed (p. 38). John Trevor was an electrical engineer in the employ of the Castner-Kellner Alkali Co., Weston Point, Runcorn, and Arthur Eyton was a chemist assisting his father; they are now both in hospital in France.

LIEUTENANT JAMES BROWN, who was wounded recently in France, served his apprenticeship with Mr. A. Gall, chemist and druggist, Fraserburgh, Aberdeenshire, and acted as his assistant until the outbreak of war. In October 1914 he joined the 1st Highland Field Ambulance, and soon afterwards was appointed sergeant-dispenser, and was attached to the 154th Infantry Brigade for eight months in France. In November 1915 he was granted a commission in the 5th Gordon Highlanders, returning to France again in the spring of this year. Lieutenant Brown was wounded in the advance. His left arm is badly smashed, and he has a shrapnel-wound above the left eye. He is in Yorkhill Hospital, Glasgow, and, although still in bed, is making good progress.

LIEUTENANT W. W. BUSBY, of the 13th Battalion (West Ham) Essex Regiment, has been awarded the Military Cross. He was, previous to the war, assistant under Mr. E. Theo. Brevis, F.I.C., in the analytical laboratory of Stafford Allen & Sons, Ltd., Cowper Street, Finsbury, E.C., and went to them direct from Carpenter's School in 1906. He passed the Matriculation examination of the London University in 1908, got his Inter. B.Sc. in 1909, and was reading for the Final B.Sc. honours in chemistry when the war broke out. He joined the Officers' Training Corps in November 1914, obtained a commission as second-lieutenant in March 1915, and was appointed bombing officer, finally becoming lieutenant in October 1915. He went to France with his battalion in November 1915. Previous to joining the Army he was an enthusiastic supporter of the Scout movement, of which he was at first Scoutmaster, and then District Scoutmaster for West Ham. His interest in the welfare of boys is further evidenced by the fact that he held the office of Sunday-school teacher for about seven years at the Forest Gate Congregational Church. He was awarded the Military Cross for leading a very successful bombing attack into the Boche trenches, and then remaining behind to attend to the wounded men of his party. In a letter to one of his Scouts he thus modestly describes the exploit: "We have not escaped the excitement, and were able to pull off a little event the other night which brought us congratulations from the Powers that Be. As a result the Commander-in-Chief has seen fit to bestow upon me the Military Cross for what he considers 'gallantry.' As a matter of fact, I got it for stalking through the grass for 200 yards and running back."

Miscellaneous.

ENEMY BUSINESSES TO BE WOUND UP.—The "Board of Trade Journal" (August 3) contains a consolidated list of enemy businesses ordered to be wound up. The list is completed to July 31, and contains the names of 279 firms.

ENEMY PATENTS.—Gas Developments, Ltd., Walsall, are applying for the suspension of or for licences to work patents 17951/09 and 19249/10, belonging to the Badische Anilin & Soda Fabrik, and dealing with the manufacture of ammonia.



LIEUTENANT J. BROWN.



LIEUTENANT W. W. BUSBY.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

General Medical Council.

A meeting of the Executive Committee of the General Medical Council was held on July 24, Sir Donald MacAlister in the chair. The Colonial Office transmitted a copy of the Medical Registration Ordinances of St. Lucia and St. Vincent. The St. Lucia Ordinance lowers the standard needed for the registration of medical practitioners for the period of the war. The St. Vincent Ordinance amends the Medical Registration Ordinance, 1886, and the General Medical Council wrote to the Colonial Office calling attention to defects in the Ordinance. Acts amending the Medical Acts of Victoria were also considered. These are of a temporary and local character, and the General Medical Council intimated that evidence of a five-years' course will still be required where Melbourne University graduates apply for registration in this country. The Apothecaries' Hall of Ireland intimated that the suggestions of the General Medical Council for the amendment of the course of study and examinations of the Hall have been accepted. The Imperial Medical Reform Union asked that the election of direct representatives to the General Medical Council be postponed to the end of 1917. The Privy Council is to be asked to sanction this course being taken.

Society of Apothecaries of London.

The following candidates at the Assistants' examination, held on July 24 and following days, were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:

Abrahams, F. C.	Frost, A. W.	Phillips, P. M.
Allan, V. T.	Goodwin, D. M.	Pugh, G. L.
Baguley, G. D.	Grant, M.	Quinlan, M. J.
Ball, C. A. C.	Green, M. E.	Ralston, M.
Barnes, A. M.	Greetham, E. S.	Randle, D. G.
Beharell, E. M.	Hall, F.	Rees, C. M.
Bennett, M. A.	Harrison, N. L.	Reeve, M. B. W.
Bentham, E. M.	Hawthorn, N.	Roberts, Agnes
Bentley, D. M.	Hitchon, A. M.	Robinson, M. E. M.
Biden, B. W.	Holdsworth, M. L.	Russell, D.
Blatch, I. F.	Hostage, A. G.	Slocumbe, C. I.
Boyce, D. K.	Humphries, W. J.	Smart, I. C.
Bridgewater, M.	Hutchin, K. M.	Smith, J.
Briggs, E. H.	Hutchinson, M.	Somerville, M. G.
Byron, S. B.	Jackson, A. N.	Stephens, L. J.
Cahill, L.	Kirk, E.	Sykes, K. C.
Carter, K. I.	Kitchen, D. M.	Tarbet, S. F. H.
Chartwright, D.	Leng, D.	Taylor, G.
Cholmeley, E. C.	Lindsey, M.	Thomas, H. A. G.
Colquhoun, M. A.	Linton, S.	Tooner, N. M.
Cottle, M. M.	McCabe, D. M.	Tounley, F. E.
Crabtree, S. A.	McGregor, M.	Tween, A.
Davidson, D. E.	Marley, G.	Vere, E. C.
Deighton, F. K.	Martin, E. S.	Vockins, R. M. C.
Dickins, K. L.	Matthews, L.	Walsh, I. M.
Domaille, G. E.	Mendelson, B.	Wardle, D.
Dosson, D. N.	Miller, P. M.	Watchorn, E.
Drury, E. S.	Monk, J. M.	Weekley, M. J.
Dudley, A.	Moore, G. F. A.	Welham, V. C.
Edwards, C. A.	Moore Lane, M. A.	Wenham, R. E.
Edwards, S. D.	Mugliston, M. M.	Whiston, D. R.
Evans, D. W.	Nafel, L. A.	Wilson, K. R.
Field, D.	Nash, M. F.	Woods, E. M.
Finch, B.	O'Dwyer, M. F.	Wright, V. A.
Fitch, N.	Orgill, A. K.	Wyatt, R.
Fitzroy, N. J.	O'Sullivan, H.	Yeomans, E. C.
Fowler, D. A.	Owen, M. G.	Young, E. M. B.
Fraser, G.	Partington, E.	Young, K. J.

Guardians' Affairs.

Alford (Lincs) Urban Council have appointed Mr. R. Kemp as chemist for the ensuing half-year.

In a letter to the Billericay Guardians, Dr. Shackleton, district medical officer, asked for an extra 7l. to meet the increased cost of drugs supplied since August 1914, which was granted to him. As showing to what extent drugs had risen in price the following instances were cited by the doctor: Acid. carbolic, liq., 1s. 3d. per lb., had increased to 4s. 4d.; tinct. scillae, 1s. 6d. to 4s. 2d.; tinct. digit., 2s. to 4s. 6d.; tinct. camph. co., 2s. to 3s. 9d.; potass. bromid., 2s. 2d. to 1l. 7s. 6d.; sod. salicyl., 3s. to 1l. 4s.; phenacetin., 4d. per oz. to 7s.

Birmingham.

The Birmingham Pharmaceutical Association has been asked to inaugurate a minimum-prices scheme to cover Oldbury, West Bromwich, Smethwick, Dudley, etc.

There was a half-and-half sort of an arrangement with regard to the Bank Holiday closing in this city. The pharmacists loyally kept open, but the drysalters, stores, and general sundry dealers were closed. As the factories

were going strong, the pharmacist had a look in for more bulky orders in consequence.

The Committee of the Wordesley Art and Technical Institute (Staffs) are urging that classes should be started on the scientific side of glass-manufacture, similar to those being successfully run at Stoke (Staffs) in connection with the pottery and porcelain trade. In the Stourbridge district they are already making bottles, electric bulbs, and tubing. A suggestion to send boys to be trained at the Sheffield University glass classes was made by Mr. Mott (from the Staffs Education Committee).

On August 2 the West Bromwich chemists invited their Smethwick colleagues to a bowling-match at Greets Green Park. West Bromwich was represented by Messrs. M. H. Griffith (President), G. M. Griffith, A. S. Barnes, F. Keene, J. M. Withers, and Kemsey-Bourne (Hon. Secretary); and Smethwick by Messrs. Hampton (President), Tranmer (Hon. Secretary), Kelsey, Adams, Kennard, and Brown. After a series of keenly-contested corners, Smethwick proved victorious. On the invitation of the West Bromwich President, the players then adjourned to tea, which was served on the lawn at the back of Mr. Griffith's pharmacy at Great Bridge, only a short distance from the Park. Mr. Hampton proposed a vote of thanks to Mr. and Mrs. Griffith for their kindness and hospitality, which was seconded by Mr. Brown on behalf of Smethwick, and Messrs. Barnes and Withers performed a similar pleasant duty on behalf of West Bromwich.

Liverpool.

From various parts of the district come reports of demands for antidotes for ptomaine-poisoning, the result of eating unsound food. Public bodies might do good service by the distribution of educational leaflets, which pharmacists would hand to customers, while other copies could be circulated through the schools.

Both in the wholesale and in the retail trade the opinion is expressed that the Cocaine and Opium Proclamation should have been more specific regarding tincture of opium and morphine. Each might have been expressly mentioned, or at the least palpably indicated. Lascar seamen, who are very numerous in Liverpool at present, make frequent demands for cocaine and bhang.

Manchester.

A Sub-Committee of the Health Committee is to consider means for securing an abatement of noxious fumes emitted from chemical-works in the Clayton district.

Manufacturing chemists and dyestuff-manufacturers in the Manchester district continue to extend and improve their works, and at last week's meeting of the City Council a number of plans for additions and improvements were confirmed. In no other industry has there been such marked progress since the war started—at any rate, in Manchester—and at every meeting of the Corporation for many months past important building and improvement schemes in connection with chemical and dye-making firms have been mentioned.

Sheffield.

The photographic portion of the chemists' business has been severely hit by the declaration that Sheffield city and the whole military area is a prohibited area for photographing and sketching. Permits under certain conditions may be obtained at the detective office on personal application.

The rearrangement of the management of Newsholme's, Ltd., has been settled. Mr. John Austen, Ph.C., who has been, since the formation of the business into a limited company, co-director with Mr. Newsholme, is chairman and managing director. Mr. A. H. Culverhouse, who has been many years with the firm as chief assistant, has an interest in the company.

At the invitation of Mr. H. R. G. Skelton, the Secretary of the Sheffield and District branch of the National Association of Medical Herbalists, the members of the branch visited his botanical garden, the many varieties of medicinal herbs being in full bloom, and a discussion was held on the properties and uses of the plants. After tea the party had a botanical ramble up the Revelin Valley.

At the meeting of the Council of the Pharmaceutical and Chemical Society, held this week, the following officers were elected: *President*, Mr. H. G. Williams; *Vice-Presidents*, Messrs. A. H. Culverhouse and S. Furnival; *Treasurer*, Mr. H. Antcliffe; *Hon. Secretary*, Mr. E. Preston; *Auditors*, Messrs. E. Wells Smith and E. Hands; *Librarian*, Mr. A. H. Culverhouse. Thanks were voted to the retiring officers, on the motion of Mr. J. T. Appleton seconded by Mr. E. Preston.

Mr. John Evans, Ph.C., F.I.C., F.C.S., Bell Scholar, has been elected an honorary member of the Sheffield

Pharmaceutical and Chemical Society. Mr. Evans is joint city analyst for Sheffield with Mr. Scott Smith, and analyst for York City and Cardiganshire. He has just retired from the senior vice-presidency of the Society, and, since his joining the late Mr. A. H. Allen as assistant, he has taken a very active part in local pharmaceutical affairs.

The stock and fixtures of the oldest chemist's shop in Sheffield, under the name of C. A. George & Son, and carried on by Mr. J. A. George at 70 Fargate, were sold by auction on Tuesday. The buyers were mostly druggists and the general public. The bidding was very erratic. Six dozen stamped corn-cucur fetched only 1s. 9d., while 1 doz. pumice-stones fetched 4s. 6d. The position is one of the best in Sheffield, and the goodwill is to be sold later.

The City Council has had somewhat of a surprise in taking the votes of some thirty different trades for the Early Closing Order. The necessary majority in favour was not obtained. The Health Committee now recommend that an order be made for all shops (except those exempted by the third schedule of the Act). The closing-hours will be: Monday, Tuesday, Wednesday, and Friday, 8 P.M.; Saturday, 10 P.M.; and under a separate order Thursday is to be fixed as the half-holiday.

Miscellaneous.

POISON ENTRIES.—After examining the entries in the poison-books of the Redhill chemists, the Director of Public Prosecutions has made an order for the exhumation of the body of a pianist, who had died suddenly.

SPECTACLEMAKERS' COMPANY.—The next examination for the optical diplomas of the Company will take place in November. Applications from candidates should be made to the Acting Clerk, 9, 10, and 11 Temple House, London, E.C.

BENEVOLENT FUND.—The statement that the donation of 14s. made to the Benevolent Fund (*C. & D.*, August 5, p. 46) was from the Norwich Pharmaceutical Association is incorrect. The money was collected in a box at the Rampant Horse Street pharmacy of Fuller & Co., Ltd., and sent by Mr. A. E. King, Ph.C.

ALLEGED THEFT.—At the Mansion House Police Court on August 4, Sidney Sales (22), motor-driver, and Francis McDavall (20), porter, were remanded on a charge of being concerned together in stealing from a trolley on St. Andrew's Hill a parcel containing a dozen bottles of sanacine, value 27s., the property of Ashton & Parsons, Ltd.

THE CHEMISTS OF LEICESTER have generously offered to give a stall and superintend it at Ye Olde Englishe Faire, to be held in the Market Place on September 28 and 29 in aid of the Mayor's 100,000l. scheme for the teaching of congenial employment to disabled sailors and soldiers of Leicestershire. It is hoped to raise 10,000l. in two days. Helpers will be dressed in eighteenth-century costumes.

POISONINGS.—The following cases have been reported since our last issue: Mrs. Sutcliffe, wife of Mr. W. Sutcliffe, chemist and druggist, Bradford, committed suicide by taking oxalic acid.—At Beckenham some months ago a woman named Harber took ammonia in mistake for ammoniated tincture of quinine. She has since died in Guy's Hospital from the effects of the mistake.—A Gateshead woman, named Greenup, has died from drinking Izal in mistake for a herbal mixture.

WAR SAVINGS.—Some weeks ago a meeting was held by the staff of S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C., and a War Savings Association immediately formed. Employés to the number of 420 have become members. On the day in question (July 4) business was suspended at 5 P.M., half-an-hour before the usual closing-time, so that a full attendance of the staff for an explanatory lecture on the advantages of the War Savings Certificates was assured.—The work of the City of London Central Committee for the formation of War Savings Associations is now carried on at Scottish Provident Institution Buildings, 3 Lombard Street, E.C.

SUPPRESSING THE COCAINE TRAFFIC.—At Marlborough Street Police Court on August 8, Margaret Meehan (28), Violet Farndon (23), and Daisy Brady (29) were sentenced to three months' imprisonment with hard labour for illegal trafficking in cocaine. Winifred Middleton (34) was sentenced to three months' hard labour and a fine of 5l.; and Horace Johnson (24), footman, who made cat-paws of the women in supplying other people, got six months' imprisonment with hard labour and was fined 100l.

LONDON PHARMACISTS' BOWLING TOURNAMENT.—The North London team journeyed to Poplar on August 3 for their opening game against the Eastern trundlers, who had previously won a game and lost one. A most enjoyable game

was played in ideal weather, the Northern men reproducing the form which won them the championship last season by winning the match on both rinks with a total margin of 32 points. The visitors were entertained to tea by the home team at the Eastern Hotel at the conclusion of the game, when it was arranged to play a return "friendly" at Wood Green on September 7.

CONTAMINATED SHAVING-BRUSHES.—The annual report of the medical officer of health for the City of London states that in the case of a man suffering from anthrax the origin was traced to a shaving-brush. Several other brushes purchased at the same shop were found to be similarly infected. Two of the firms who had been supplied with these brushes by the wholesale dealer carried on business in the City, but had shipped their entire consignments to New Zealand and Australia. In view of the serious consequences that might arise should these brushes be passed into use, the firms at once cabled orders for their destruction.

AT THE WELLCOME CLUB.—The Dartford staff of Burroughs Wellcome & Co., entertained a number of wounded soldiers from the Orchard Convalescent Hospital, Dartford, at a garden-party in the grounds of the Wellcome Club and Institute on August 5. Many of the visitors took part in the games that were played during the afternoon—cricket, tennis, bowls, and croquet—while others enjoyed boating on the river. Tea was served on the lawn to the accompaniment of orchestral music, after which an excellent concert took place. The evening finished with dancing on the lawn, and before the soldiers marched away each received a small souvenir of the occasion.

PRIVATE ARRANGEMENT.—The creditors of Jacob Nathan Lever (trading as Levers), Elver Works, 12 Moreland Street, Boundary Street, Great Ducie Street, Manchester, wholesale and manufacturing chemists, were called together on August 3, when the statement of affairs prepared showed liabilities amounting to 2,237l., and assets valued at 817l., after allowing for the preferential claims. The unsecured creditors' claims totalled 807l. 8s. 5d., while there were cash creditors' claims amounting to 1,185l., and a sum of 240l. odd was due to the bank. It was reported that the debtor started trading in 1910 at 41 Stockport Road, giving 250l. for the fixtures, fittings, and stock, and he continued this business until November 1914. In March 1914 debtor opened a wholesale chemist's and druggist's business in Victoria Bridge, Manchester. He was flooded out there, and also had a fire by which he lost heavily. The debtor had no offer to make, and it was therefore decided that the estate should be dealt with under a deed of assignment. The following are among the creditors: Stern Sonneborn Oil Co., Ltd., London (125l.); S. Fleming & Co., London (62l.); J. Morgan Davies & Co., London (13l.).

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Thompson & Co., pharmaceutical chemists, have opened a Medical Hall at Main Street, Boyle, Roscommon.

Mr. D. M. Watson, Ph.C., past President of the Pharmaceutical Society of Ireland, is to be married this month to Miss M. Steven Rae.

Mr. James Barry, M.P.S.I., has opened a branch shop at Bridge Street, Boyle, in addition to his pharmaceutical establishment in the main street of that town.

A Bill has been introduced into the House of Commons to assimilate Irish time with that of Greenwich. Owing to opposition, Mr. Samuel, the Home Secretary, states that the Bill will probably be dropped.

The "National Drug News" of Canada states that Mr. James Allen, Ph.C., of Grindley's Pharmacy, Montreal, is shortly to spend a holiday in Ireland. He is an Irish pharmaceutical chemist, qualifying in 1895.

Mr. A. Corr, a young Irishman, is stated to have discovered a new aniline dye, which has been adopted by the British Government. The invention is, according to the local papers, to bring in much wealth to Mr. Corr.

At the last meeting of the Kinsale (co. Cork) Guardians a letter was read from the Local Government Board sanctioning the employment of Mr. D. J. O'Mahony (Cork) as analyst at a fee of 6s. for each drug-sample analysed.

Patrick Delaney, a private in the Leinster Regiment, has been returned for trial on the charge of breaking the window in the Medical Hall of Mr. Moloney, Dungarvan. A claim for compensation for 12l. for malicious injury has been lodged.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Mr. Alexander Milne, pharmacist and veterinary chemist, Maud, re-opened his shop there on August 7.

Mr. G. Calvert McGonigal, chemist and druggist, has purchased the business of the late Mr. W. Grieve, at 89 High Street, Carnoustie.

Edinburgh.

Dr. A. Lauder, of the Edinburgh and East of Scotland College of Agriculture, Edinburgh, succeeds Dr. J. P. Longstaff as the Hon. Secretary of the Edinburgh and East of Scotland Section of the Society of Chemical Industry.

A telegram has been received by his parents, who reside at "St. Margaret's," Juniper Green, Mid-Lothian, from Lieutenant C. H. Jardine, the Royal Scots, who was officially reported killed in action on July 23, stating that he is quite well. Lieutenant Jardine's father is Mr. Thomas Jardine, Edinburgh, representative of T. & H. Smith, Ltd.

Glasgow and the West.

Statements for the May accounts have been sent to panel chemists by the Insurance Pricing Bureau.

Among medical men and chemists cycles are daily becoming more popular, the reason being the scarcity of petrol.

Camphor squares are now selling at 1½d. each, and there has been a tendency to increase the price of lin. camph. and allied preparations.

During the past week there has been an extraordinary demand for effervescent drinks. These pay well at 2d. per small, 3d. per large glass.

The Glasgow Dean of Guild Court has approved of the plans for erecting a concentration-plant shed in connection with the works of R. & J. Garraway, manufacturing chemists, Duke Street.

Last week a fire broke out in the oil-refining works of Sandeman & Co., Ruchill. The fire originated in the resin department, which the fire-brigade succeeded in isolating. The damage done was only small.

Correspondence has recently appeared in Scottish newspapers on the matter of utilising wild "bracken." One writer suggests its use for the manufacture of paper, while another advocates calcination for the sake of the potash salts.

Chemists and druggists who acted on the advice of the *C. & D.* and secured a good supply of wrapping-bills from proprietors of specialities have reason to feel grateful. There has been another increase in the price of wrapping-paper.

The prospects of an ample heather-honey harvest are at present very good. The heather on the Scottish hillsides is just bursting into bloom. The flowers are large and succulent, and in excellent condition after the wet summer and a week of brilliant sunshine.

In the Glasgow Sheriff's Court on August 7, a Chinese sailor named Chan Man was convicted of attempting to smuggle 20 lb. of opium. Mr. A. Murdoch, Ph.C., of the New Apothecary Company, was called by the Crown to prove that the article was opium. A fine of 50*l.*, with the alternative of three months' imprisonment, was imposed.

Last week reference was made to the comparative prices of soap in Great Britain and Germany. A further proof of the power of the British Navy in this connection is shown from the fact that a Glasgow firm with works in a section of the southern hemisphere is now bringing home in its own ships from its own works enormous quantities of an oil which is credited with a yield of glycerin 20 per cent. higher than that of any other fat.

The Town Clerk reported to the Special Committee on the Shops Act that he has taken a vote of the occupiers of chemists' shops for the purpose of ascertaining whether or not at least two-thirds of the shopkeepers approve of a closing-order being made (see *C. & D.*, August 5, p. 37). There were 302 voting-papers issued, and 232 were returned in favour of a closing order, twenty-seven being against. The Committee, being satisfied that at least two-thirds of the shopkeepers affected are in favour, have made a Closing Order in the terms mentioned last week. The Order now requires the approval of the Secretary for Scotland.

Legal Reports.

Naphthaline-salts Dispute.—In the City of London Court on July 27, before Judge Atherley-Jones, K.C., J. M. Steel, 3 Thames Street, Queen Street Place, sued the Firelighter Supplies, Gorton, near Manchester, for 19*l.* 6*s.* 5*d.* for 140 bags of naphthaline salts supplied. An allegation of shortage was made by defendants, but his Honour decided for the plaintiff for the amount claimed, with costs.

Pharmacy Act Cases.—Mrs. Elizabeth Charlotte Vincent, 94 High Street, Clapham, was sued by the Pharmaceutical Society of Great Britain, at Wandsworth County Court on July 31, for a penalty of 5*l.* under Section 15 of the Pharmacy Act, 1868, for keeping open shop for the retailing, dispensing, or compounding of poisons. Evidence of the purchase having been given, judgment was entered for the Society, with costs.—Herbert Halestrap, an unqualified assistant to Mrs. Vincent, was at the same court also fined 5*l.* for selling paregoric.

Bankruptcy Reports.

Re Andrew Mitchell, 56 Wide Bargate, Boston, Chemist and Druggist.—The following are among the creditors: Bourne, Johnson & Latimer (London), 13*l.*; British Drug Houses (London), 12*l.*; D. & W. Gibbs, Ltd. (London), 13*l.*; Hill, Evans & Co. (Worcester), 10*l.*; Harker, Stagg & Morgan, Ltd. (London), 15*l.*; S. Maw, Son & Sons, (London), 11*l.*; British Petroleum Co. (Hull), 18*l.*; Pilchers, Ltd. (London), 15*l.*; Spratts Patents, Ltd. (London), 11*l.*; Warrick Bros., Ltd. (London), 10*l.*

Re George Shilliam, 67 Warwick Street, Leicester, Chemist's Assistant.—At the Leicester Bankruptcy Court on August 4, debtor appeared for his public examination. He said he started in business as a druggist at Ibstock in the name of Claude & Co., and subsequently was a grocer and beer-retailer for a short time in Checketts Road, Leicester. His liabilities were returned at 111*l.* 5*s.*, and there was a deficiency of 99*l.* He is now again a chemist's assistant. His capital when he started business was about 10*l.*, which was spent in fitting up the shop. The stock he obtained on credit. Eventually he was compelled to close down, when he sold his stock, mainly in the bulk, for 30*l.* He then owed about 90*l.* With the 30*l.* he bought a grocery and off-licence business, which turned out a complete failure, and had to be closed. The examination was concluded.

Re Bessie Greer, lately residing at "Sunnymede," Castledine Street, Quorn, Leicester, but whose present address is unknown, Medicine-vendor.—A statement has been issued by the Official Receiver (Mr. Evan Barlow), in which it is stated that the liabilities are 6,832*l.* 0*s.* 2*d.* and the deficiency 6,365*l.* 12*s.* 11*d.* Mr. Barlow states that the debtor appears to be identical with one Elizabeth Margaret Grant Greer, spinster, who was adjudged bankrupt in the High Court in 1910. The debtor attributed that failure to liabilities arising in connection with a business, in which she was interested, for the manufacture and sale of tonic bitters. The debtor never obtained her discharge. Apparently in 1913 she was trading at Newcastle-upon-Tyne as an advertising contractor, under the style of "J. Greer & Co." and "The Rapid Return Co.," and appeared to have left there without paying her debts. In 1915 the debtor went to reside at Quorn, and in about June of the same year acquired for a sum of 100*l.* the goodwill of a business carried on at Nottingham as "The Medical Carbon Company," the purchase-money being borrowed by her from an acquaintance she had made in Leicester. Shortly afterwards the debtor was joined by a partner, who provided 200*l.* The partner subsequently joined H.M. Forces, but the partnership was not terminated. Apart from a small stock of drugs, the only assets appertaining to the business are the office effects, which at the instance of the debtor were returned to the firm who had supplied them on credit.

THE IMPORTS OF CHEMICAL AND PHARMACEUTICAL PRODUCTS into Brazil during 1915 amounted in value to 9,606,235 milreis gold, against 7,870,279 m.g. in 1914 (milreis gold = 2*s.* 3*d.*). The imports of perfumery for the above years were valued at 1,068,325 m.g. and 1,078,544 m.g. respectively.

Birth.

MELDRUM.—At Milnraig, Holmston Road, Ayr, on August 1, the wife of Martin Meldrum, a son.

Marriages.

EDMONDSON—WILSON.—At the Parish Church, Thornthwaite, on August 2, Thomas Edmondson, chemist and druggist, Penrith, to Mary, daughter of the late Mr. John Wilson, of Braithwaite.

ETCHELLS—VINES.—At St. John's Church, Clayton, Bradford, on July 25, by the Rev. W. N. Dawson, M.A., Gilbert Henry Etchells, pharmacist, eldest son of Mr. and Mrs. H. Etchells, Carlisle, to Amelia, youngest daughter of Mr. and Mrs. Robt. Vines, Clayton.

McKINLAY—WILSON.—At the Wesleyan Chapel, Glossop, on July 25, Finlay McKinlay, chemist and druggist, High Street, Glossop, to Mary Wilson, youngest daughter of Mr. R. Wilson, Inglenook, Glossop.

MILLS—GIBBS.—At St. Mary's, Harrow-on-the-Hill, on August 2, H. Mills, pharmacist, to Emily Gertrude Gibbs, eldest daughter of the late Henry Gibbs, chemist and druggist, Berkhamsted.

Golden Wedding.

WOODGATE—WHITTON.—At St. Matthew's Church, Brixton, on August 14, 1866, by the Rev. R. B. Ransford, M.A., Richard, the fifth son of Henry Woodgate, of Camberwell, to Emily, second daughter of Charles Whitton, of Brixton. [Mr. Woodgate's present address is 21 Gorot Road, Wandsworth Common, S.W. He is manager for William Edwards & Son, 157 Queen Victoria Street, London, E.C., having been with the firm for over fifty-seven years. It is an interesting circumstance that Mr. Woodgate's father and mother, who were married in 1829, lived to celebrate their golden wedding in 1879. Mr. Richard Woodgate and his sister (Mrs. Henry C. Quelch) are the only survivors of a family of thirteen. A portrait of Mr. Woodgate was given in the *C. & D.*, April 17, 1909, on the occasion of his jubilee of service with Messrs. Edwards.]

Deaths.

HORTON.—At Chidham Creek, Hants, on August 3, Laurence William Adey Horton, son of Mr. W. J. Horton, chemist and druggist, "Malabar," Hambrook, Emsworth, and Chichester, aged seventeen. Young Horton, who was suffering from an incurable disease, heard cries of distress from two bathers who had got into difficulties at Chidham Creek. He at once jumped into the water and succeeded in rescuing one of the bathers. He then returned for the second, but before reaching him he himself sank exhausted, and was drowned. The second bather was saved.

JACOBS.—The death occurred on July 30 of Mr. John Thomas Jacobs, a member of the engineering staff at the Wellcome Chemical-works, Darford. He was brother to Fireman William Godfrey Jacobs, who lost his life on the occasion of the disastrous fire at the Wandsworth works of Burroughs Wellcome & Co. in 1889. Mr. Jacobs had been in the employ of the firm for twenty-six years.

JAMES.—At 56 Half Moon Lane, Herne Hill, on August 6, Mr. Joseph James, chemist and druggist, 18 Wilton Road, Victoria, London, S.W., aged fifty-nine.

KING.—On July 28, Mr. Geo. Herbert Montague King, 12 High Street, Southend-on-Sea, aged fifty. He was the youngest son of the late Mr. C. M. King, for many years in business at Southend.

PATTISON.—At 17 Marsh Street, Stafford, on July 31, Mr. Henry Pattison, chemist and druggist, aged eighty. Mr. Pattison was in business at Shrewsbury until about eight years ago. He leaves three sons (one of whom is in business as a pharmacist at Derby) and three daughters, while his eldest son only predeceased him by a few days.

PEARCE.—At Weston-super-Mare, Mr. G. W. H. Pearce, Maplecroft, Trewartha Park, aged seventy-two. He was a director of Lewis Wing, Ltd., chemists.

SMALE.—At Paravurlic, Henley-on-Thames, Mr. Morton Alfred Smale, M.R.C.S., L.D.S., 22a Cavendish Square, London, W., aged sixty-nine. Mr. Smale was a well-known dentist, and for many years was Dean of the Royal Dental Hospital and a member of the Dental Board of Examiners at the Royal College of Surgeons.

WOOD.—At 54 Part Street, Southport, on July 24, Mr. George Edward Wood, chemist and druggist, aged sixty-nine.

Died on Service.

DIXON.—In France on July 14, Harved J. Dixon, chemist and druggist, only son of Mr. and Mrs. Dixon, Scarborough, late of York and Workop.

HARDIE.—Company-Sergeant-Major Robert Hardie has been killed in action in France. He was with Mr. W. M. Elliot, chemist and druggist, Coldstream, when he enlisted in September 1914. He gained promotion at the battle of Loos.

HUNTER.—Sergeant David B. Hunter, R.A.M.C., chemist and druggist, was killed on July 20. He was twenty-seven years of age, and was for nine years an assistant with Caw & Robertson, Cupar, Fife, with whom he served his apprenticeship. He enlisted in September 1914.

JONES.—Lieutenant H. M. Jones, King's Liverpool Regiment, late of Bank Buildings, Youghal, co. Cork, was killed in action on July 30, aged twenty-six. He was the brother of Mr. W. J. Jones, Ph.C., Waterford. Two other brothers are serving their country.

MAGER.—Killed in action on July 15, Alan, younger son of Mr. and Mrs. W. K. Mager, Queenstown, Cape Colony, aged nineteen. He was engaged in his father's business (Mager & March) at the time he enlisted in a South African regiment, and had seen service in Egypt. His father is well known as an old member of the Cape Pharmacy Board.

MARTIN.—Private T. Martin, of the 9th Royal Fusiliers, who was, prior to his enlistment, engaged with Boots, Ltd., George Street, Richmond-on-Thames, has been killed in action.

MOORE.—Lance-Corporal Fredk. Moore, King's Liverpool Regiment, who has been killed in action, at the age of nineteen, was formerly employed by Jas. Woolley, Sons & Co., Ltd., manufacturing chemists, Manchester.

RHYS HUGHES.—Second-Lieutenant Rhys Hughes, Lancashire Fusiliers, whom we reported last week (p. 34) as being severely wounded, has since died in hospital in France. He was the only son of Mr. William Hughes, chemist and druggist, Sale (of J. T. Chapman, Ltd., photographic chemists, Manchester). He received his commission in September 1915, and went to France in January last. Before gaining a commission he was in the 16th Manchester (1st City Battalion), and was promoted to sergeant.

SUTCLIFFE.—Private Robert William Sutcliffe, of the Royal Fusiliers, was killed in action in France, on July 27, while trying to save a wounded officer of another regiment. Private Sutcliffe was the son of Mr. James Sutcliffe (Sutcliffe & Gosden, drug-merchants, Dunster House, Mincing Lane, London, E.C.), and was thirty-six years of age. He was engaged in his father's business, and was a regular attendant at the drug-auctions. A brother of Private Sutcliffe is in the same regiment.

WESTON.—Killed in action in France on July 30, Private Seymour Glynne Weston, son of Mr. J. H. Weston, pharmacist, Runcorn. Previous to the war Private Weston was a clerk in the employ of Farrow's Bank, Ltd., Liverpool. Two other sons of Mr. Weston were wounded at the same time and place (see p. 34).

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. H. H. CANNON, chemist and druggist, has opened new premises at 19 Market Place, Penzance.

THE BUSINESS of the late Mr. J. C. Colcs, Ph.C., of Market Place, Chippenham, has been taken over by his manager, Mr. Harry Bulton.

THE executors of the late Mrs. Farthing have disposed of the pharmacy at 164 Wyndham Road, Camberwell, S.E., to Mr. Ellis, trading as C. Gadd & Son, Vauxhall Bridge Road and elsewhere.

MR. THOS. WOOD has retired from the firm of August Faber & Co., 60 Mark Lane, London, E.C., with which he has been connected for many years. In 1886 Mr. Wood succeeded as a partner his father, Mr. Henry Wood, who had been connected with the firm since 1833 and a partner (together with Mr. H. Bluhm) since 1850. The business will be carried on by the remaining partners, Mr. Edmund Faber, only surviving son of the late Mr. H. Bluhm and grandson of the founder of the firm, Mr. Aug. Faber, and Mr. E. H. Oldendorff, who joined the firm in 1905 and has at the present moment three sons (two with the rank of major in the T.F.) serving with the Forces.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MISS E. L. HOARE has been appointed as dispenser at the Kensington Parish Infirmary.

MR. P. G. CURTIS, chemist and druggist, has been elected a member of the Committee of the Brightlingsea Tradesmen's Association.

A FRAMED PORTRAIT in oils of the late Alderman J. C. Coles, Ph.C., late Mayor of Chippenham, has been placed in the Council Chamber.

GUNNER H. COLEMAN, only son of the Secretary of the Wolverhampton Chemists' Association, who was wounded on April 6 in Mesopotamia, is now out of hospital.

MR. HAHNEMANN EPPS, whose death was announced last week (p. 38), was chairman and, up to nine years ago, managing director of James Epps & Co., homeopathic chemists and cocoa-manufacturers.

MR. WILLIAM P. EVANS, President Liverpool Chemists' Association, desires to tender his sincere thanks to so many of his friends up and down the country for their sympathy in his recent bereavement. He has received some 500 letters, and finds it impossible to reply to all, and if any pharmacists have not received his card of acknowledgment he hopes they will take this notice as an equivalent.

THE GOLDEN WEDDING was celebrated a few days ago of Mr. and Mrs. Allen Bentley, of South Street, Paddock, near Huddersfield. Mr. Bentley is a chemist's assistant, having been in the employ of Needhams, Ltd., chemists and druggists, for seventeen years prior to 1906, when he went to the Huddersfield Industrial Society. He retired from business in 1913. Mr. Bentley is in his seventy-fifth year.

MR. THEO. H. WARDLEWORTH, F.L.S., one of the directors of the National Drug and Chemical Co. of Canada, Ltd., Montreal, who is one of the delegates sent by the Canadian Government to study the question of trade relations between the Dominion and the Allies, has returned to this country from France and Italy. A tour of the industrial centres of the United Kingdom is now being undertaken by the party.

MR. MONTAGUE CASHMORE, chemist and druggist, secretary to Parke's Drug Stores, Ltd., has written an interesting little book, entitled "Fermat's Last Theorem" (G. Bell & Sons, Ltd.), in which he works out a rigid proof in elementary algebra of Fermat's last theorem. This theorem, which has been unsolved for nearly 250 years, was supposed to present almost insuperable difficulties, and is a very elusive problem, readily lending itself to fallacious arguments.

MRS. R. L. GIFFORD, wife of Mr. R. Lord Gifford, J.P., Ph.C., who has been one of the Joint Secretaries of the Blackburn Women's Liberal Association since its formation, was on August 8 presented by the members with a silver cake-basket in appreciation "of untiring service in the interests of Women's Liberalism." Lady Norman, wife of Sir Henry Norman, Bart., M.P., paid a tribute to the work of Mrs. Gifford and her co-secretary, who also received a similar gift.

MR. E. PRESTON, Ph.C., the new Hon. Secretary of the Sheffield Pharmaceutical and Chemical Society, although only just elected to a seat on the Council, has taken a very active part in pharmaceutical matters, especially in Insurance work. In the early stages of the new Pricing Bureau he was called in to get the arrangement into working order. He is the lecturer on pharmacy for the secondary school, and is in business with his father, Mr. Job Preston, of Barker Pool. He is full of energy, and the local chemists are now expecting a "move on" in pharmaceutical work.

Wills.

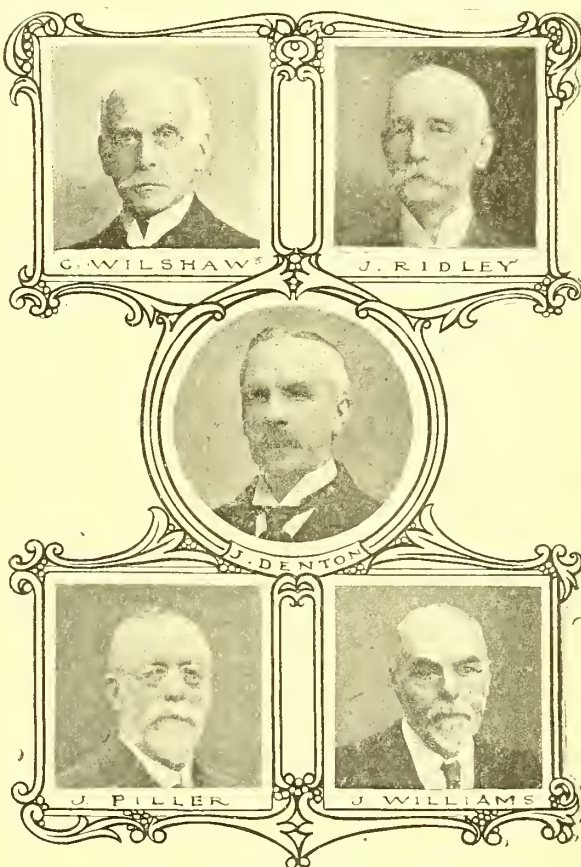
LIEUTENANT-COLONEL CECIL HAMERSLEY WALDRON, F.C.S., who was killed in Belgium on March 2, has left property of the value of 702*l.* 5*s.* 10*d.*

MR. CHARLES JONATHAN WILSON, chemist and druggist, Boston, Lincs., who died on May 21, left estate of the gross value of 3,522*l.* 9*s.* 7*d.*, of which 722*l.* 1*s.* 10*d.* is net personality.

THE LATE FRANK W. S. METCALFE, L.D.S., Chelmsford, Essex, eldest son of the late Wilson Metcalfe, Ph.C. and dentist, Chelmsford, left estate of the gross value of 1,851*l.* 3*s.* 11*d.*, of which 1,696*l.* 11*s.* 6*d.* is net personality.

Maws' Veterans.

THERE appears to be "something in the atmosphere" of Aldersgate Street which promotes longevity and long service. At least, that is so at S. Maw, Son & Sons', where at the present time there are five employees actively engaged who have been in the business for over fifty years. It will be remembered that Mr. Charles Maw, the late senior partner, who died on January 5, 1905, had a few days previously completed fifty years' connection with the business. In the case of Messrs. Maw's employees the most remarkable instance is that of the Martins, where the father and his two sons were employed in the business each for over fifty years. There are many in the trade who remember Mr. Tom Martin, who died on the same day as Mr. Charles Maw, and also Mr. Charles Martin, whose death took place comparatively recently—October 26, 1914. Other instances of long service are those of Mr. J. Bailey, Mr. Thomas Masters, and Mr. W. Leplastrier. The five veterans still



engaged at the House of Maw are Mr. John Denton (whose fifty years' service was completed in 1910), Mr. J. Ridley and Mr. G. Wilshaw (who have been there for fifty-one years), and Mr. J. Piller and Mr. J. Williams (who have completed fifty years recently). On July 17, when Mr. Piller entered the ranks of the veterans, a pleasant little ceremony took place at Aldersgate Street. The General Manager (Mr. A. F. Porter) made the presentation of a gold chain and pendant on behalf of the staff, Messrs. Maw having previously given a cheque for a handsome amount. The pendant on the chain was a replica of the Royal Humane Society's medal for life-saving, as it transpired that Mr. Piller in 1884, when staying at Yarmouth, saved the lives of two young men. The presentation to Mr. Williams took place on July 24, the staff giving him a gold watch. Mr. Porter again presiding at the ceremony. The firm also gave a cheque. The portraits of the five veterans are given here. It is, we think, a unique record for any firm connected with the drug-trade.

WOMEN AS ANALYSTS.—"The Englishwoman" publishes an article by Miss Emily L. B. Forster, in which analytical chemistry is recommended as a profession for women. A university course in chemistry is advised.

Trade Notes.

"CHRISTY'S MONTHLY" for August deals with Zepto pencils, hair-brushes, Ilexol shaving-sticks, and Py-Shan Points tea. There are illustrations of window-shows of the Christy specialities.

ASPIRIN is now being made in Canada by the Mallinckrodt Chemical Works of Canada, Ltd., at their Montreal works. Other chemical products which the company makes are also mentioned in their advertisement in this issue.

AYRTON, SAUNDERS & Co., LTD., Liverpool, inform us that Mr. W. H. Chambers, their representative in Scotland, has joined the Forces. Mr. C. R. Brown, 9 Edina Street, Edinburgh, has been appointed in his place, and will call on customers in the course of a few weeks.

"EASTERN FOAM" is a new vanishing cream for the skin which is placed before the trade by The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N. The retail price is protected under the P.A.T.A. scheme. Special terms are offered where window-displays are given.

WIREWORK.—Procter Brothers (Wireworks), Ltd., Leeds, are specialists in wirework. The company's advertisement in this issue deals with wire sieves and the "Settler" fly-bat. The sieves can be had made of any kind of wire. The fly-bat retails at 6½d., and is a really effective piece of apparatus for destroying flies.

BARKOLA COMPOUND.—The Barkola Co., Ltd., 42 Great Dover Street, London, S.E., have altered the retail price of Liq. Barkola Compound to 2s. 9d.; wholesale, 26s. per dozen. The change has been necessary owing to increasing costs, but the opportunity has been taken to increase somewhat the chemists' profit.

LACTAGOL.—E. T. Pearson & Co., Ltd., manufacturing chemists, Mitcham, Surrey, have an attractive advertisement in this issue referring to lactagol, a product which is much employed for the purpose of stimulating the flow of milk in nursing-mothers. We are asked to emphasise the fact that lactagol is British owned and manufactured.

RUSSIAN TRADE.—R. Martens & Co., Ltd., 149 Leadenhall Street, London, E.C., send us an economic map of the Russian Empire which they have published with the object of promoting trade with that country. A number of symbols are employed to indicate the minerals, livestock, soil-products, and manufactures of the various parts of the Empire.

LORD KITCHENER'S LETTER, which was purchased at the Red Cross Gift House Sale and presented to the nation, is being reproduced in facsimile by Raphael Tuck & Sons, Ltd., Raphael House, Moorfields, London, E.C. It is published for the benefit of the Lord Kitchener National Memorial Fund and the British Red Cross Fund, and sells at 1s., 2s. 6d., 10s. 6d., 21s., and 42s.

"RAILOX" SOLDIER'S WALLET.—Milner's Chemical Co., Liverpool, send us a sample of their new soldier's pocket-wallet or body-vermin killer, which is guaranteed to be an effective insect-destroyer in powder-form. The remedy is placed in a stout buff envelope (5 × 3½ in.), fitted with a muslin aperture for dusting on, and after use the envelope is replaced in a compact pocket-wallet. The retail price is 6d. each.

ASPIRIN.—Pickard, Ives & Rankin, Ltd., Walmer Chemical Works, Walmer Road, Notting Hill, London, W., have received large contracts for aspirin from the War Office. The company send us a sample of the aspirin now being produced, which reflects the result of continuous work in improving the product. The sample is free from salicylic acid, shows a melting-point of 135° C., and leaves no ash on incineration. The aspirin is in beautiful, soft, pearly crystals.

EUTHYMOL TOOTH-PASTE.—Parke, Davis & Co. have just issued two attractive and topical posters. The designs are reproduced in our advertisement pages, but the originals are in six colours. Emphasis is laid on the fact that Euthymol tooth-paste is British-made. In regard to the regulation requiring the declaration of proof spirit in certain preparations, Parke, Davis & Co. announce that although there is a doubt as to whether their preparations come within the scope of the regulations, it is intended in future to label the following with the amount of proof spirit they contain: Egg-emulsion, beef iron and wine, cascara cordial, esencia de calisaya, esencia de coca, kola cordial, nutritive liquid pepton, palol, pepsin cordial, elixir lactated pepsin, lime-juice and pepsin, essence of pepsin. Customers holding stocks of these can be supplied with spirit labels on request.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

CARNALD ENGINEERING Co., LTD. (P.C.).—Registered in Edinburgh. Capital 3,000, in 1½ shares. Objects: To carry on the business indicated by the title and that of chemical manufacturers, etc. R.O., 2 Barfillan Drive, Craigton, Govan, Glasgow.

CARBIC ITALIANO, LTD. (P.C.).—Capital 30,000l. Objects: To take over from Carbic, Ltd., the business which that company carries on or is authorised to carry on in Italy. The subscribers are H. Fonseca and A. Jackson, 51 Holborn Viaduct, E.C., Secretary.

E. DEAN, LTD. (P.C.).—Capital 500l., in 1½ shares. To carry on the business of manufacturers of and dealers in drugs, chemicals, medicines, toilet requisites, surgical, electrical, photographic, and other appliances. R.O., 12 All Saints Road, St. Anne's-on-Sea.

ANGLO-AMERICAN CHEMICAL Co., LTD. (P.C.).—Capital 3,000l., in 1½ shares. Objects: To take over the business of a manufacturer and factor of carbon-papers, inked ribbons, etc., carried on by C. M. Gourvish as the Anglo-American Chemical Co. at 93 Aldersgate Street, E.C.

GERMINOL PRODUCTS, LTD. (P.C.).—Capital 5,000l., in 1½ shares. To take over the business of a manufacturing chemist carried on by L. E. Moreau, trading as the Germinol Products Syndicate at 727 Fulham Road, S.W., together with the whole of the assets. R.O., 1 Regent Street, London, S.W.

UNITED ALKALI Co., LTD.—The directors have declared interim dividends at the rate of 7 per cent. per annum on the preference and of 1s. per share on the ordinary shares.

A. SARGEANT & Co., LTD.—A notice of the appointment of F. Rowland, of 70 Queen Victoria Street, London, E.C., as receiver or manager, by order of Court, has been filed.

PRICE'S PATENT CANDLE Co., LTD.—The directors have declared an interim dividend of 15s. per share for the half-year to June 30, and a bonus of 5s. per share, less income-tax.

W. & H. M. GOULDING, LTD.—The directors' report states that the net profits, including dividends from subsidiary companies, amounted to 53,552l. 13s. 9d., out of which it is proposed to set aside a sum of 7,000l. to cover estimated discounts on realisation of outstanding debts. This, with 3,875l. 3s. 10d. from last account, leaves a sum of 50,427l. 17s. 7d. available for distribution. After providing for the usual debenture interest and the fixed dividend at the rate of 5½ per cent. on the preference shares a dividend of 7 per cent. on ordinary shares is recommended, of which 3s. 6d. per share is payable herewith and the second 3s. 6d. per share on December 31 next, less income-tax.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

38/22. "Nodise" suppositories.	34/71. "Cepach" or "Cepash" salts.
31/57. "Marie Rose" egg-wash shampoo.	27/41. Dr. Lucano's pills.
33/40. Cargill's tissue.	40/26. "Hashra."
33/56. "Salvopine" for colds.	40/45. Hopkinson's bird tenter.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.:

Acetic acid, 34/64	"Glycolactophos," 32/27
Alvol anaesthetic, 30/7	Glyco-thymoline, 40/72
Anatomical corsets, 30/68	"Glysdora" soap, 32/58
Aniline colours for confectionery, etc., 32/21	Lycopodium, 35/25
Brooks' "Monkey Brand" soap, 29/69	Milk casein, 26/48
"Common Sense" rat exterminator, 34/40	Orange-peel (Dutch and French importers), 34/24
"Compun" artificial pumice 40/68	Phenolphthalein 34/1 and 35/25
"Daisy" fly-killer, 34/57	"Pino" paste, 26/42
"Digena" tea, 138/7	Piperazine, 26/48
Garrell's dental gauges, 30/9	"Reduine," 27/64
Glauber salts, 37/68	"Thyphol" surgical dressings, 26/49
	"Vitomogen," 37/21

Observations and Reflections.

By Xrayser II.

The Cocaine Regulations

are going to affect chemists considerably, and there will be a good deal of grumbling in some quarters, but I am sure that my fellow pharmacists will be ready to do their share in the great movement now on foot. I have not myself come in contact with any cocaine fiends, but I am told by those who know that there is a real need for restriction, and I feel grateful to the Government for the firm way in which the subject is being handled. The unregistered dentist will feel the pinch most, but there are local anaesthetics other than cocaine. You mention novocaine and eucaine, but I understand that both of these substances are controlled by the War Office, and that there is little to spare for general trade. Moreover, the price of eucaine almost puts it out of court. The amount necessary for an ounce of 2-per-cent. solution will cost at least 1s., which makes its use for this purpose almost prohibitive.

The Answer of the "British Medical Journal"

to the Secretary of the Pharmaceutical Society's letter on stock mixtures is, properly speaking, no answer at all. To call the remark that such mixtures "tend to hasty prescribing" an "indictment of the whole body of medical practitioners" is absurd. It is not an indictment of anybody, but a simple statement of fact, not necessarily carrying any moral imputation whatever. All labour-saving schemes "tend" to hasty action; their object is to save time, and when the saving of time is made an object there is a natural inclination to haste; but to say this is only to say that stock mixtures may be, not that they are, an occasion of hasty prescribing.

"The Whole Insurance Scheme,"

said Dr. Greenyer, Chairman of the National Medical Union, in his evidence before the Commission of Investigation at the House of Commons, is, "from the medical point of view, a disastrous failure," and certainly a good deal of the evidence given by other medical witnesses appears to justify the assertion. It was said by one of these that "patients should have some sort of examination," the implication obviously being that at present they have none; a medical visit, we are told, is treated (by the doctor, I presume) "as if it were the incident of a moment, like buying a pound of tea over the counter"; and the witness added that the panel doctors who are making the largest incomes are doing the worst work, which is just what was to be expected. The farcical side of the business is found in the complaint of the doctors that they have no time to examine their patients. For this is, speaking generally, their own fault. Why do they accept so many on their panels, and if they do accept more than they can treat single-handed, why do they not employ assistants? It can hardly be said that, before the war at any rate, there were not enough doctors to go round, if all shared in the work. The fact is that many deliberately set themselves in opposition to the work, while others exploited it in their own interest. In each case self-interest was a ruling motive; and the fact (if it is a fact) that the work is a failure takes on sinister significance from the admitted fact that a great many of the doctors employed are making large incomes out of it. And yet, poor fellows, if by economical prescribing they can get the floating sixpence for themselves, they make, as was stated to the Commission, an extra 25% only out of 1,000 patients.

Your Last Week's Reports

from local centres throw some light on the reasons why the Act does not work satisfactorily "from the medical point of view." One doctor, "to avoid surcharging," prescribes half-drachms of pot. brom. to be dissolved in water; another orders *scrophularia nodosa* (sic) in drop doses! (I remember using this

herb—Stinking Jack i' the Hedge—in a proprietary ointment when I was an apprentice, but I suspect that not one pharmacist in a hundred has ever handled it); the doctors of a whole district refuse to dispense emergency prescriptions, yet complain of an inadequate service by chemists; in another district a Panel Committee proposes ("hasty prescribing," this, most surely) to make a number stand for both ingredients and dosage; and in London a doctor, with the connivance of certain chemists, supplied medicines from his own surgery. The only "medical point of view" observable in all this is the convenience or profit of the *medicus* himself; the interest of the patient does not seem to come into sight at all.

History Repeats Itself

in pharmacy just as it does in national life, and I have lived long enough to see a few old schemes brought out of the musty cupboards of long-past years and refurbished for the benefit of the rising generations. Forty years ago the one great idea that was to save the situation was a uniform retail price-list, and I recall the interest taken in the introduction, first of the Liverpool and next of the Edinburgh price-lists. We were all much uplifted—that is the modern term—at the idea of making our fortunes out of the increased rates, for uniformity was and is of little value if the prices are too low; but, alas! the best-laid schemes, etc., are apt to be shortlived, and so it was with the uniform prices. And now we are at it again. Liverpool took the lead, and Edinburgh must next follow suit. This time, however, they only want a scale of prices for prescriptions; the drugs can go hang for the present. I am not sure if it is wise to neglect the drugs, for I am of the opinion that a good deal more profit is made out of drugs than out of dispensing, especially in these days of panel profits.

The Military Tribunals' Decisions

which you report weekly show a good deal of variation in the way in which the responsibilities of panel chemists are regarded in different places. Some of which I have heard suggest that local prejudice and even trade jealousies have occasionally some influence, which, if it is actually true, is scandalous. Whether it is true or not, the want of uniformity in dealing with exactly similar cases is very unjust and inevitably gives rise not only to great unsettlement of mind and uncertainty as to the future in those affected by the decisions, but to discontent, disaffection, and something like disloyalty with respect to the whole business of recruiting. A case was brought to my notice the other day which may be exceptional, but could probably be paralleled by others. X. Y. Z. is the only qualified pharmacist in a town of about 8,000 inhabitants; he dispenses some 10,000 Insurance prescriptions and several hundreds of dependants' prescriptions yearly; the only assistant he has or can get is unqualified, though quite competent, and his whole business, as well as this Insurance work, depends entirely upon himself; even to attend before the Tribunal he had to close his shop. Yet he was granted only three months' exemption, in spite of the strongest representation he could make. Other tradesmen—milkmen, etc., including one unqualified druggist—in his immediate neighbourhood, but under other Tribunals, have been granted total exemption. Such anomalies are monstrous. The Insurance Commissioners ought to protect us from the possibility of being so treated. It is evident that local Tribunals cannot be trusted to do the most elementary justice.

FOR THE LONG NIGHTS a most entertaining and readable book is Wootton's "Chronicles of Pharmacy." The two volumes, published at a guinea, are sold by the C. & D. for 7s. 6d.

POLICE NOTICES in regard to the Cocaine and Opium Regulation (40B), made under the Defence of the Realm Act, are being sent out. The part relating to cocaine is correctly summarised, but that referring to opium is given as follows: "The sale of opium is also prohibited, except to duly qualified medical practitioners or to persons having a Home Office permit."



DISINFECTANTS

(Fluid, Powder and Soap)

- "Sanitas Fluid" No. 2 (Crude).
Non-poisonous, disinfectant and deodorant.
- "Sanitas-Bactox."
Homogeneous Phenoloid Disinfectant; 18/20 co-efficient.
- "Sanitas-Okol."
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Editorial Articles.

The Third Year of War

has begun, and the omens of victory for the Allies in the near future are very favourable. The Prime Minister stated recently: "It is the united opinion of the Allied General Staff that our prospects of victory have never been so bright nor so full of promise"—an assertion free from brag and full of quiet confidence. With the prospect of peace it becomes increasingly necessary to prepare for the economic war which the Germans have declared they intend to conduct. As their methods of trade are now known to be founded on dishonesty, exceptional means are called for to prevent "peaceful penetration" in future. It was the object of the Paris Economic Conference to agree as to the lines upon which the Allies should in future prevent German domination in trade. A useful debate on this matter took place in the House of Commons last week, and the statement of the Prime Minister leaves little room for doubt that energetic measures are in contemplation to gain the end in view. Mr. Asquith emphasised the determination of the Allies to see that the countries which Germany has despoiled have prior claims as regards the restoration of raw materials, industrial and agricultural plant, stock, and mercantile fleet. The "most favoured nation" treatment will not be extended to any of the enemy nations for a term of years after the war, and the

Allies will co-operate with each other in facilitating the interchange among themselves of the raw material which they command. As regards the permanent measures of mutual assistance and collaboration among the Allies, the Prime Minister especially referred to the provision of financial assistance for the encouragement of scientific and technical research and the development of national industries and resources. A large number of British industries have shown extraordinary enterprise and resourcefulness since the war broke out. There has appeared a greater disposition among individual manufacturers, said Mr. Asquith, to co-operate by interchanging ideas, by putting their trade secrets, which have hitherto been jealously guarded, into the common stock, and by calling in all the available scientific and mechanical resources of the country for the purpose of increasing output and improving organisation. Already schemes have been devised to render us independent of enemy supplies as regards dyes, spelter, and other important commodities, and it is to be hoped that the industries thus established will be given a fair chance to become firmly rooted on British soil. The manufacture of fine chemicals, laboratory glass and porcelain ware, and filter-papers may be mentioned as industries which must not be exposed to German dumping tactics. It is only fair, for example, that the three manufacturers who have so successfully overcome the difficulties of making salvarsan should receive assurances that German salvarsan shall in future be excluded from this country. The same applies to other cases where, notwithstanding war difficulties, plant has been erected for the manufacture of many new chemicals. Apart from Government intervention a good deal of help could be given by pharmacists in discriminating between British and foreign made chemicals. It is stated that 75 per cent. of the universities, technical institutions, and schools have undertaken not to purchase chemical glassware of foreign manufacture for a period of three years after the war, provided that an adequate supply of British manufacture is forthcoming at a price that is not prohibitive. We should like to see similar discrimination exercised by pharmacists against German chemicals.

The Cocaine Regulation.

It will be remembered that last week some members of Parliament raised the question of the supply of cocaine to unregistered persons practising dentistry. The argument used was that a very large number of tooth-extractions by unregistered practitioners take place in which a local anæsthetic is employed, and as the practice of these persons is largely among the industrial class, the last-named would be deprived of a means of alleviating the pain of the operation of tooth-extraction. There have been difficulties in obtaining supplies of eucaïne and novocaine, which could be used for dental purposes in place of cocaine, owing to the large amount of these artificial alkaloids required by the military surgeons, who naturally have first claim on the manufacturers. With a view to meeting this difficulty the Home Secretary has agreed to permit unregistered dentists to use cocaine as a local anæsthetic in tooth-extraction until September 15, this concession being first announced to a deputation of members of Parliament which interviewed Mr. Samuel on the matter. The Home Office has since issued an official statement embodying this concession, and mentioning also that arrangements are being made for the release of a supply of novocaine for the use of persons who were *bona-fide* engaged on July 28 in practising

dentistry, but are not registered under the Dentists Act, 1878. Eucaïne is being manufactured on an increasing scale, and will also soon be available for use as a local anæsthetic for dental purposes. Announcements are to be made as to how and where the novocaine preparations can be obtained. In reply to a deputation which waited on Mr. Samuel on August 9, it was announced that the time during which unregistered dentists can obtain cocaine will be extended to October, until the House of Commons meets after the recess.

Some inquiries have been addressed to us regarding the position of coca and its preparations under the cocaine regulation. It will be observed that the regulation contains the following definition:

The expression "cocaine" includes all preparations, salts, derivatives, or mixtures prepared therefrom or therewith, and containing 0.1 per cent. (one part in a thousand) or more of the drug.

This, it will be noted, excludes coca-leaves and preparations made from them, such as the liquid extract, but we have not yet received official confirmation of our view that this is the intention of the definition. Coca-leaves contain a variable amount of cocaine, and are not used in this country for the purpose of making cocaine, the alkaloid being imported in a crude form for the purpose of manufacturing the pure product. Chemists need not be reminded that preparations or admixtures of coca, but not coca itself, are included in the poison schedule in Part I. or II. according to the amount of alkaloid contained in the preparation or admixture.

Overseas Trade in July.

THE Board of Trade Returns for July may be considered highly satisfactory, inasmuch as British exports are 11,601,000*l.* (or 33.4 per cent.) more than the figures for the corresponding month of 1915 at 46,323,000*l.*, which is the third highest monthly total since the war, and much above the figures for several months prior to the outbreak. Moreover, the July imports are only 1,048,000*l.*, or 1.4 per cent., more at 76,772,000*l.*, so that the so-called balance of trade has gone still further in our favour. In re-exports of foreign and Colonial produce there was a considerable shrinkage, the total decrease being 1,514,000*l.*, or 16.1 per cent. less. In imports the outstanding feature of the month's trading was a welcome reduction of practically five millions sterling in food, drink, and tobacco, the July purchases being almost thirty-two millions sterling. We bought 6,872,800*l.* more of raw materials last month, of which 1,603,700*l.* more was wood and timber, 1,765,400*l.* more cotton, and 1,212,100*l.* more "other textile materials," while oilseeds, fats, gums, and the like were 1,624,495*l.* more at 5,830,288*l.*, part of this being due to much larger receipts of lin and rape seeds; palm-kernels fell about 9,000 tons to 24,000 tons. On the whole, however, the advance is due to the much higher prices ruling for seed oils generally. In manufactured goods imported there was a decrease of 646,000*l.*, and this in spite of the substantial advance of 934,566*l.* in chemicals, drugs, etc., our purchases of which reached 2,578,000*l.* The biggest increase in this section was 541,300*l.* for "miscellaneous chemicals," which includes many of the still highly priced synthetics; imports of tartaric acid decreased by 690 cwt. to 3,741 cwt., but the value rose by 22,769*l.*; potassium compounds (chiefly salt-petre) were 15,461 cwt. more, while borax and its congeners were 1,901 cwt. more; on the other hand, there was a falling-off in cream of tartar by 4,167 cwt., or 30.586*l.*; glycerin by 11,269 cwt., or 31,780*l.*; soda compounds by

20,410 cwt., or 14,6117. Imports of quinine fell off by 459,660 oz., or 11,8837.

Turning to British exports for July, it is again satisfactory to find that the greater part of the increase was in manufactured goods, the total expansion under this heading being 9,319,0007. We shipped abroad last month 2,790,0007. worth of food, spirits, and the like, and of raw materials we sent 5,854,0007. worth, the bulk of which was coal 4,825,0007., or 1,583,0007. more, but the quantity was less by 157,000 tons. Although prices of chemicals and drugs have exhibited a falling tendency, it is not yet reflected in exports; indeed, those relating to actual drugs and medicines exported show an extraordinary increase in values, and are as follows:

	1914	1915	1916
	£	£	£
July	215,765	290,361	482,212
January-July ...	1,447,105	1,659,240	2,477,443

The total of all chemicals and allied goods exported was 2,486,9007., or 486,5007. more than in July 1915 and 960,7267. more than in July 1914, which points to the fact that the trade of many neutral countries, apart from our Allies, is already passing into British hands.

The Duty on Ginger-beer.

An intimation has been made by the Customs and Excise authorities that the rate of duty on ginger-beer is 4d. per gal., and on herb-beer 2d. per gal. It is provided in the Finance Bill that ginger-beer is a table-water, and that the maker must obtain a licence and pay duty upon the quantity prepared and sold. If a person uses a machine or other mechanical contrivance, such as a soda-fountain, for the manufacture of table-waters to be sold by retail on the premises where made, a record must be kept and duty paid on the production. Herb-beer formerly came under the category of table-waters, but the second Finance Bill, passed nearly a month ago, reduced the duty from 4d. to 2d. per gal. Doubt having risen as to whether ginger-beer came under the heading of herb-beer, inquiry has been made, states "The Times," and the authorities announce that it is liable to the old four-penny rate of duty, and not to the rate levied on herb-beer.

Arsenic Content of Salvarsan.

WRITING to the "British Medical Journal," Burroughs Wellcome & Co. refer to the misapprehension which exists as to the percentage of arsenic in salvarsan and neo-salvarsan. It appears that the earlier circulars of the Farbwerke vorm. Meister, Lucius und Brüning, the first makers of salvarsan, stated that salvarsan "contains about 34 per cent. arsenic." It was afterwards reported in a German technical paper that salvarsan had been found to contain 31.2 and 31.8 per cent. of arsenic. The formula $C_{12}H_{12}N_2O_2As_2 \cdot 2HCl \cdot 2H_2O$ requires 31.6 per cent. The later circulars of the German company were modified to read: "The As content of the preparation corresponds to the formula $C_{12}H_{12}N_2O_2As_2 \cdot 2HCl + 2H_2O$." This statement applies equally to kharsivan. In regard to neo-salvarsan, the Farbwerke vorm. Meister, Lucius und Brüning stated that this contains as the active constituent dioxidiamidoarsenobenzene-mono-methane-sulphonate of sodium, $C_{12}H_{11}O_2As_2N_2 \cdot CH_2 \cdot O \cdot SONa$, together with inorganic salts. The active constituent itself contains 32.2 per cent. of arsenic, but in consequence of the presence of inorganic salts the commercial product, neo-salvarsan, is stated to contain in 0.15 gram only as much arsenic as 0.10 gram of salvarsan. This means that neo-salvarsan contains about $\frac{3}{5} \times 31.6 = 21.1$ per cent. of arsenic. That this figure is approximately correct is confirmed by the analyses of F. Lehmann ("Apoth. Zeit."), who found 22 per cent. of arsenic in this product. Similarly 0.15 gram of "neo-kharsivan" is equivalent in arsenic-content to 0.10 gram of "kharsivan." Neo-salvarsan and "neo-kharsivan," therefore, contain about 21.1 per cent. of arsenic.

Patent Medicines in Australia.

SINCE we dealt with this matter in our issues of May 27 (p. 39) and June 3 (p. 44), further steps have been taken by the Owners of Proprietary Articles Section of the London Chamber of Commerce, who have addressed a letter to the Australian Press, in which it is stated that:

The Senate in May 1916 passed an Act to amend the Commerce (Trade Descriptions) Act of 1905 which, if it should be passed by the House of Representatives, will have a far-reaching and disastrous effect on a very important Australian trade—namely, that relating to medicines and medicinal preparations or appliances for internal or external use as well as to certain articles of food and drink.

The medicines and medicinal preparations that will be affected by this legislation include such well-known proprietary preparations as Beecham's Pills, Woodward's Gripe Water, Powell's Balsam of Aniseed, Collis Browne's Chlorodyne, Guy's Tonic, Clarke's Blood Mixture, Phosphorine, Steedman's Powders, and Holloway's Pills and Ointment, which have a large sale in the Australian Colonies as well as in other parts of the world, and have a well-deserved reputation as being good and efficient household remedies.

Although the Act on its face is limited to medicines and foods as specified above, it contains a most objectionable clause enabling the Minister to make the Act and the Commerce (Trade Descriptions) Act, 1905, applicable to any other class or classes of goods which the Minister notifies by Order published in the "Gazette."

In this letter we are specially dealing with medicines and medicinal preparations, but the proposals as they affect other goods are equally objectionable. . . .

It has probably not been thought practical to try and prohibit the sale of proprietary medicines by Act of Parliament, but various attempts have been made from time to time to bring about this result by means of restrictions which, though on the surface they appear to be designed for the protection of the public, are in fact intended to kill the trade. One of the restrictions that has often been proposed is that it should be compulsory for the proprietor to publish the formula of his preparation on the goods—that is to say, the proprietor should publish to the world at large what his remedy consists of and how it is made. The result of this would, of course, be to open to the world at large and to his competitors and rivals his valuable trade secret, in many cases worth thousands of pounds, and to take away from the proprietor his valuable trade-mark and trade-name which is the foundation of his business, built up, it may be, after many years of successful effort.

The present Act as it has passed the Senate does not, on the face of it, require disclosure of formula on the bottle or package, but it requires that any owner of a proprietary medicine or medicinal preparation or appliance for internal or external use or certain foods, shall supply to the State in writing an exact and complete statement of the ingredients of his preparation and "such other information" as the Minister may require; and the proprietor is compelled to submit to the Minister all printed matter relating to the goods, and such printed matter shall contain such notices and statements as are necessary in the opinion of the Minister for the protection of the public. Therefore, under this particular Act, although what is explicitly required is deposit of a statement of the ingredients with the Minister, the next step may well be to require not only deposit of the formula, but also that the proprietor shall print and publish on the goods a statement of the ingredients or formula and method of manufacture. The result of deposit or publication of the formula would be so serious that if this Act becomes law in Australia no owner of a valuable proprietary medicine could comply with the law without running the risk of losing his proprietary rights, and he would thus have to cease offering his remedy in Australia. The result of deposit of formula would inevitably be that the knowledge would become public in Australia, and this knowledge would soon extend to and become known in other parts of the world, and the proprietor would lose the benefit of his trade-mark and trade-name not only in Australia, but all over the world.

It may be suggested that if the Act should require nothing more than the deposit of particulars with the Minister this would not involve publication, but this is a delusion. The Act provides that particulars as to the composition of the article may be used for the purpose of the administration of justice.

It is easily conceivable that proceedings might be set on foot in respect of a proprietary article either vindictively or at the instigation of a rival in trade for the purpose of obtaining the formula without regard to the result of the proceedings, and the result would be that

disclosure of the particulars would be required, and these particulars might, and almost of necessity would, become public, in which case the whole value of the proprietor's valuable trade secret would disappear.

As was clearly shown in 1913 in Western Australia, where an Act was passed for formula deposit, which was for some time in force but subsequently repealed, the result was that the formulae of the best-class proprietary medicines were not deposited, and only those of a more doubtful nature or at least of less accepted merit were deposited; and we would venture to refer all interested to the discussion which took place in the Legislative Council when the regulations were disallowed, and to the speech of the Hon. W. Kingsmill, who moved the rejection.

There is not, and could not be, any objection to any requirement necessitating the placing on the medicine itself of a statement that it contains (if such is the case) any substance which the Legislature may schedule as a poison. The Commerce Act of 1905 and its schedules in fact provide for this.

No evidence of the slightest value has ever been adduced as showing that the deposit of formula of proprietary articles would in the slightest degree protect the public.

If protection of the public against the sale of fraudulent remedies is necessary this result could and should be brought about in quite another way which would hit the fraudulent seller without at the same time injuring the honest trader.

The principal owners of proprietary medicines, through the Owners of Proprietary Articles Section of the London Chamber of Commerce, have themselves given the most earnest thought to the protection of the public, and have themselves submitted to the authorities in England proposals for dealing with that class of medicines which may be deemed injurious to the public.

A guarantee fund has been opened by the Special Committee to meet extraordinary expenses which have been incurred in opposing the Bill, and members are urged to place their names on the list of guarantors.

It will be remembered that this Bill passed the Senate on May 19, and as Parliament has adjourned until September it has not yet been introduced into the House of Representatives. Opinion in Australia inclines to the belief that owing to the vigorous opposition to the stringent character of the Bill in regard to formula disclosure the matter will not be carried further.

New Books.

Directory of Manufacturers on the North-Eastern Railway System. 6 $\frac{1}{2}$ ×4 $\frac{1}{2}$. Pp. 1,290. Gratis. (North-Eastern Railway, York.) [Consists of two sections: I. Towns under Trades.—The trade headings are in alphabetical order, and the firms are shown in alphabetical order under each town in which they conduct their business. II. Trades under Towns.—The towns are in alphabetical order, with the trades carried on in each town similarly arranged. Telephone and telegraphic addresses are given. The Directory deals with manufacturers, wholesale importers, exporters, and merchants.]

Horn, John. *Sugar and Sugar Confectionery as Necessary Articles of Food.* 8 $\frac{1}{4}$ ×5 $\frac{1}{2}$. Pp. 40. 3d. (John Horn (Stockport), Ltd.) [The author contends that, as sugar is a necessary article of food, and is the raw material of many industries, it should be entirely free from taxation. It is a vigorously written pamphlet.]

Luboff, S. J. *The Pictorial Russian Course.* 7 $\frac{1}{8}$ ×4 $\frac{3}{4}$. Pp. 141. 2s. (L. B. Hill, 2 Langham Place, London, W.) [The method of teaching Russian which is adopted in this book is to place before the student a picture of a sitting-room or chemist's shop, for example, in which the various persons and articles are numbered. The text then describes the scenes in simple Russian, lessons in grammar being also interwoven.]

"CRYSTALS," a journal in miniature devoted to the well-being of the people, is published monthly by Mr. G. Forbes Johnston, chemist, 154 Brook Street, Broughty Ferry, and is worth getting.

THE "Times" states that the aniline-dye factories erected by the late Sir William Perkin, the discoverer of aniline dyes, at Wembley, which have been closed for over twenty years, have been reopened by a manufacturing company.

India and the East.

(From the "C. & D." Correspondents.)

BUSINESS CHANGE.—Mr. Geo. W. Crawford, chemist and druggist, of The Pharmacy, 2 Battery Road, Singapore, has purchased the Medical Hall branch of the Medical Hall, Ltd., opposite the General Post-office.

LIQUIDATION OF ENEMY FIRMS IN CEYLON.—The draft of an Ordinance for the liquidation of enemy firms in Ceylon is published in the "Gazette" of July 6, as also the draft of an Ordinance relating to enemy property.

THE BHAVNAGAR CHEMICAL-WORKS at Vartej has been established by Parekh Bros., of Jetpur, for the manufacture of all kinds of tinctures, spirits, liniments, and other pharmaceutical and chemical preparations, under the direction and supervision of Mr. V. U. Parekh, M.A., B.Sc. They are working satisfactorily and are supplying medicines to various States in Kathawad.

Narcotics for India.

In our issues of September 7, 1912, December 20, 1913, and August 21, 1915, we gave a list of preparations which may be exempted from the operation of the rules governing the importation of cocaine and its alkaloids into India. Further legislation has been effected by the Government of India, who have decided that the medicinal preparations containing cocaine or other derivatives of the coca-plant which are specified in the appended list shall, in future, be exempted from Customs and Excise restrictions in the various provinces of India, subject to the following conditions:

(1) That every preparation shall be labelled with the manufacturer's name; and

(2) That the exemption shall not extend to the preparation manufactured by any maker or firm whose produce may be declared by the Local Government to be excluded from the scope of the exemption.

2. The exemption will not apply to imports by sea through the post. The preparations mentioned in the list will, however, be admissible for inland transport by the post.

3. Customs Circular No. VI. of 1915 is cancelled.

Revised list of preparations containing cocaine or other derivatives of coca to be exempted from Excise and Customs restrictions:

1. Extractum cocae liquidum.
2. Mist. hepatica composita.
3. Pigment. cocinae et hydrarg. perchloridi.
4. Ampoules containing cocaine in admixture with adrenalin, hemisine, or epinine, when labelled by the makers as containing not more than one-third grain of cocaine in each ampoule.
5. Coca cordial
6. Elixir damiana composita
7. Ixidama and other similar palatable preparations
8. Kola compound
9. Kola cordial
10. Tonic coca wines
11. Cocaine hypodermic tablets:
 - (a) Hydrochloride of cocaine $\frac{1}{16}$ th gr.
 - (b) Hematropine and cocaine.
 - (c) Atropine and cocaine.
 - (d) Pilocarpine and cocaine.
 - (e) Aromatic throat tablets containing menthol, myrrh, krameria, and cocaine $\frac{1}{32}$ nd gr.
 - (f) Aseptoids, Dr. Maenoughton Jones, each containing $\frac{1}{16}$ th gr. of cocaine hydrochloride.
12. Ointments containing cocaine or other derivatives of coca in admixture with other drugs and rendered nauseous to the taste.
13. Ophthalmic tablets when labelled by the makers as containing not more than $\frac{1}{32}$ th gr. of cocaine hydrochloride in each tablet.
14. Other preparations containing cocaine or other derivatives of coca in admixture with other drugs, when labelled by the makers as containing in the aggregate not more than such specified percentage of cocaine hydrochloride or other derivatives of coca per tablet, trochiscum, pastille, soluble sterile, emule, lamella, or fluid drachm as will render it impossible for any such preparation to be taken for the effects of cocaine or any other derivative of coca alone.

"CLASSICAL ACETIC ACID" and "Lazarus Paste" are a couple of recent and easily-interpreted demands.

THE NET QUANTITY OF OPIUM imported into China during 1915—that is, released from bond for consumption after payment of duty and likin—was 4,447 piculs, against 7,484 piculs in 1914.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

ARMY MEDICINES AND APPLIANCES.

Mr. Lloyd George announced on August 9 in the House of Commons that as regards drugs, medicines, bandages, and other medical appliances in Mesopotamia, all demands have been supplied, and he is satisfied that sufficient supplies are now available. Filtration barges are being sent out, and an installation for sterilising water has been provided on many ships already there.

PETROLEUM-PRODUCTS.

Mr. Harcourt announced, on August 8, that he is aware that a large proportion of the trade in this country of petroleum-products, such as benzine, petrol, oils, and paraffin wax, etc.—is not under the control of British subjects. The businesses of companies trading in those products in which enemy interests predominate are being carried on under supervision, and the whole question of the steps to be taken to secure a larger British interest in the distribution of those products is at present receiving careful consideration.

REGISTRATION OF BUSINESS NAMES BILL.

This Bill passed the House of Lords on Wednesday evening and was sent to the Commons. A new clause was added requiring every firm, individual or corporate, carrying on business in the United Kingdom as the nominee, agent, or trustee of another to register the true Christian name and surname of the latter or the corporate names of the firm as the case may be. Now that the Bill has reached the House of Commons the Government is to be asked to secure its enactment in view of the absence of opposition and the unanimous report of the Select Committee. Lord Southwark, who introduced the Bill in the Upper Chamber, informed our Parliamentary correspondent that he has every hope that the Bill will be passed through the House of Commons.

THE PRODUCTION OF GLYCERIN.

On the Colonial Office vote in the House of Commons on August 3, Mr. Bigland remarked that very few members of the House knew that in the preparation of cordite glycerin is the essential article required, and owing to the foresight of the Colonial Office when the whalers transferred their trade from the Arctic to the Antarctic they were enabled as the guardians of the British Empire to control the whole of the trade by giving out licences. They had the foresight to see that if we supplied the whalers with coal and other necessities of their business it was only fair to attach to the licences the condition that the product of their catch must be sold in the United Kingdom. The result had been that during this year they had received in this country 600,000 barrels of whale oil, one-tenth of which is glycerin—that is, 60,000 barrels of glycerin brought into this country, enabling them to produce cordite at an exceedingly reasonable price.

USE OF COCAINE IN DENTISTRY.

As announced by our Parliamentary representative in last week's issue of the *C. & D.*, a private interview took place at the House of Commons on August 3 between a number of members of Parliament and representatives of the unregistered dentists on the subject of the new regulations. Mr. P. W. Raffan, M.P., presided, and there were also present Mr. J. M. Hogge, M.P., Mr. H. Chancellor, M.P., Sir E. Beauchamp, M.P., Sir F. Lowe, M.P., and Mr. H. A. Watt, M.P. A letter was read from the Home Secretary, in which he agreed to an extension of time during which cocaine can be used by unregistered dentists—in view of the fact that the supply of novocaine, the suggested substitute, is not immediately available in the form in which it is usually required—to September 15. After considerable discussion it was decided to ask the Home Secretary further to extend the period until October 15, which would carry them over until the House of Commons reassembled, and if, in the interval, the Home Secretary found that no abuse resulted, to withdraw the prohibition altogether.

The deputation waited on Mr. Herbert Samuel on August 8 and placed these views before him. Mr. Samuel, in reply, said he would make further inquiry into the needs of unregistered practitioners, and would in any case extend the permit allowing 1-per-cent. solutions until after the House of Commons met in October, when the matter might again be gone into.

Mr. Herbert Samuel informed Commander Wedgwood, M.P., on August 7, that, for the reasons which he explained to the House on July 31, he has not seen his way to include unregistered dentists among the classes of persons authorised by the Regulations to purchase cocaine. He had taken steps, however, to make available for the use of unregistered dentists a sufficient supply of novocaine, which is an efficient substitute for cocaine and is used by many dentists, and as this supply is not immediately available for use in the form in which it is usually required by dentists he has granted a temporary permit which will allow unregistered dentists to continue the use of cocaine in the interval, and a full statement on the subject has since been issued (see p. 33).

The Earl of Ronaldshay, M.P., asked the Home Secretary, on August 8, whether he would consider the advisability of exempting *bona-fide* unregistered practitioners of dentistry from the Order preventing the public from obtaining and using cocaine and its preparations.

Mr. Samuel said he had nothing to add to his previous answers.

On August 10 (Thursday) as we went to press Captain Douglas Hall, M.P., asked the Home Secretary whether he is aware that owing to the restrictions put on obtaining cocaine and its preparations nearly 2,000 members of the Incorporated Dental Society are unable to obtain this anesthetic, and consequently suffering is inflicted on the general public; and if he can see his way to remedy this state of affairs.

The Right Hon. George Lambert, M.P., also asked Mr. Samuel to modify the Order so far as unregistered dentists are concerned who are genuinely using the drug for dental purposes.

COCAINE IN INDIA.

In the House of Commons on August 8, Sir J. D. Rees, M.P., asked the Secretary of State for India whether he is aware of the increasing prevalence of the use of cocaine in the bazaars of Indian towns and among the Indian populations; whether such extended use has followed the restrictions placed upon the growth, sale, and use of opium; whether the connection between the disuse of the less and the use of the more dangerous drug is established; and, if so, whether any steps are being, or will be, taken to facilitate the moderate and medicinal use of opium, and to withdraw such regulations as incline to ignore anything but its abuse.

Mr. Austen Chamberlain referred the hon. member to the reply which he gave him earlier in the year.

At the same time (Tuesday) Sir Herbert Roberts also asked about cocaine in India. What are the restrictions imposed upon the traffic in this drug; whether the existing regulations are sufficiently stringent to prevent its importation, possession, and sale except for medical purposes; the number of offences connected with cocaine and the aggregate quantities of licit cocaine imported during the last five years; the countries exporting cocaine to India; the quantity annually exported; and whether the action taken by the Government of India, through his Majesty's Government, to restrict the traffic by international agreement has led to a reduction of the supply of cocaine at its sources.

Mr. Austen Chamberlain replied that illicit traffic in cocaine continues to be a source of grave anxiety to the Government of India and himself, and stringent regulations on the subject have been framed. He cannot within the limits of a reply give these in detail, but generally, he said, imports are prohibited except under licence, that private possession is punishable, and that sale to private persons by chemists and druggists is permitted only for medical purposes on the prescription of a qualified medical practitioner. The drug, however, lends itself to smuggling by seamen and others in ways which defeat the best-conceived regulations. Offences in connection with cocaine are not separately shown in all the Provincial Reports. As to the concluding portion of the question, he would refer his hon. friend to replies previously given by the Foreign Secretary.

Licensed Importation of Cocaine into India.

	Quantity in ounces.				
	1910-11	1911-12	1912-13	1913-14	1914-15
From United Kingdom ...	1,199	1,342	1,400	1,143	975
From Ceylon ...	2	—	—	—	—
Foreign countries (not specified) ...	180	80	309	313	101
Totals ...	1,381	1,422	1,709	1,456	1,076

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Berkshire.—The Medical Benefit Sub-Committee reported to the Insurance Committee, at the meeting on July 29, that the list of stock mixtures had been received from the Commissioners, but the Panel Committee had not yet selected those for use in dispensing. Dr. W. N. May called attention to the fact that no selections had been made. He considered that if they were, the drugs would not be made up in excessive bulk, and the chemists, even in rural areas, would have a reasonable hope of dispensing their stocks within the year. (Laughter.) There was, however, a feeling on the part of some members of the Sub-Committee that if the procedure were followed up it might lead to prescribing A, B, C, and D.

Bury (Lancs).—The Clerk's report on chemists' accounts for last year, presented to the Insurance Committee on August 1, showed that the prescriptions dispensed numbered 62,728, against 74,771 in 1914, the cost being 1,981*l.* 14*s.* 11*d.*, against 2,944*l.* 14*s.*, and the average per script 7.23*d.*, against 9.34*d.*; while the average per head of insured persons was 1*s.* 7.91*d.*, against 2*s.* 4.94*d.* in 1914.

Cumberland.—At the meeting of the Insurance Committee on July 26, the Sanatorium and Medical Committee's report recommended that two doctors be surcharged 11*s.* 5*d.* and 3*l.* 10*s.* 1*d.*, respectively for excessive prescribing. The Recruiting of Chemists Committee had instructed the Clerk to support applications for exemption on behalf of six chemists or assistants, and recommended the Insurance Committee to take similar action in another case.

Halifax.—At the meeting of the Halifax Chemists' Association on August 2, Mr. P. W. Swire (Secretary of the Pharmaceutical Committee) reported that "repeat" prescriptions would come into operation on September 1 for the duration of the war. He also stated that scripts would be forwarded post free if delivered to the Halifax Insurance Committee not later than the 2nd of the month.

Hampshire.—The Insurance Committee met at Winchester on July 31. The Clerk reported the receipt of Instructions 222 and 223 I.C., regarding the maintenance of an efficient dispensing service, and summarised the results of the inquiries made by the Committee's representatives. The shops affected numbered thirty-four, with a total dispensing staff of fifty-five, of whom forty-two were liable for military service. Twenty-nine of these were to be recommended for exemption. The Prescription-checking Sub-Committee's report was approved, recommending the payment of two guineas to Mr. G. W. Griffiths, the late checker, as a moiety of the payment due to him for the labour involved since he left the Committee's service—equal payments to be made by the Panel and Pharmaceutical Committees. The Clerk is to call the attention of the Panel Committee to the supply of drugs in areas where prescriptions average less than 7*d.* with a view to insured persons receiving a proper supply of medicine. The Commissioners' list of stock mixtures had been received, and is to be sent to the Panel Committee for consideration.

Isle of Wight.—The Insurance Committee met on July 22, when the Finance and Medical Benefit Sub-Committee reported that the number of insured persons in the district is 24,183, a decrease of 66 on the previous report. The Panel Committee notified their selection of ten stock mixtures for dispensing. Dr. Thomarson (Yarmouth) having resigned from the panel, his place has been taken by Dr. Bickerstaff, late of Bournemouth. The Committee recommended that the County Council be paid eighty guineas for the services of the county medical officer in connection with applications for Sanatorium Benefit during the year; also that doctors be paid for treatment of 80 per cent. of the insured persons on their lists for the quarter and 4½*d.* per head for drugs. Chemists' accounts for the quarter ended March 31 were 328*l.* less than in the corresponding quarter of last year and 277*l.* less than in that of 1914.

Liverpool.—The report of the Pharmaceutical Committee for 1915-16, just issued, shows a decrease of eleven in the number of panel chemists in the town—122, as against 133 in the preceding year. After dealing with extravagant prescribing, the payment of accounts, and the 1916 Drug Tariff, the report states that, in consequence of the issue of a closing order by the Local Authority, a "late" dispensing-fee of 5*d.* is to be allowed on weekdays (Wednesday excepted) between 9 p.m. and midnight; on Wednesdays after 8.30 p.m. The Insurance Committee prohibits the general

use of "Rep. mist.," but during the war will permit its employment where a *locum-tenens* is acting for a doctor in cases of emergency, provided that no "repeat" be given in any calendar month by reference to a prescription given prior to the 1st of that month; that no "repeat" be given by reference to an order containing more than one prescription; that no modification of or addition to the original prescription be made; that the doctor give the prescriptions in full if the patient so requests; and that each "repeat" indicate clearly the date of the original order. The Panel Committee has compiled and issued a new Formulary. The stock-mixture clause came into effect on July 31. With reference to recruiting, the figures submitted to the Military Representative by the Insurance Committee showed that the total male staff in the city is 322, of which number 163 are eligible for military service (93 married, 70 single); and the Committee have recommended exemption in eighty-three cases. The statement of accounts, which is appended to the report, shows that 571,319 prescriptions were dispensed in 1915, at a cost of 22,394*l.* 1*s.* 5*d.*, against 666,486 in 1914, at a cost of 25,377*l.* 0*s.* 1*d.*

Middlesbrough.—The Pharmaceutical Committee met on August 3, Mr. A. C. Gaddes in the chair. Mr. D. E. Owen was co-opted to the Committee in place of Mr. R. H. Bennison, resigned. Messrs. Brackenbury, Carris, and Gaddes were elected to the Pharmaceutical Service Sub-Committee. The Committee are trying to secure the deletion of G.O.W. bandages from the Tariff. A new arrangement is necessary owing to fresh instructions from the Joint Insurance (Prescriptions) Committee.

Middlesex.—The Prescription-checking Department reports that the work of the South-Eastern Pricing Office is now so well in hand as to prevent the need for any delay in payment of accounts, except in cases where chemists fail to send in their scripts or invoices in proper order. The number of Middlesex scripts received for May was 63,492, and for June 53,479; the average price per script was approximately 7.1*d.* for May and 7.2*d.* for June. A larger proportion than usual of the June scripts was checked in detail, but the total number of errors disclosed did not exceed 1.6 per 100 scripts, reckoning errors both ways, and improvement was manifested as the work of pricing proceeded for the month. Considerably more than one million scripts, received from twelve distinct areas, were dealt with during the first six months of 1916. All of the areas differ more or less in their detailed arrangements, and there are some hundreds of local formulæ to be re-priced every month, but the whole of the work is proceeding smoothly as the result of skilful organisation.

Salop.—The Pharmaceutical Committee met at Shrewsbury on August 3, Mr. T. R. Sparrow (Bridgnorth) presiding. Vacancies on Committees were filled up. It was resolved to ask the Medical Service Sub-Committee for prompt monthly payment of chemists' accounts. It was also decided to circularise the members of the County Association as to the relations existing among the Pricing Bureau, the Insurance Committee, and the Central Checking Bureau.

Somerset.—The Insurance Committee met at Bridgwater when the Medical Benefit Sub-Committee reported the receipt from the Panel Committee of a list of ten stock mixtures for dispensing. The Finance Sub-Committee's report for the quarter ended March 31 stated that the number of prescriptions dispensed was 39,738, at a total cost of 1,888*l.* 8*s.* 4*d.* and an average cost per script of 7.117*d.*

Tynemouth.—At the last meeting of the Medical Benefit Sub-Committee, the Clerk (Mr. Elias Lambie) presented an analysis of prescriptions up to the end of March, which showed that during that period the total number of prescriptions dispensed was 10,417, the average cost per script being 5.79*d.* and the highest average cost per doctor being 9.44*d.* During 1915 the total number of prescriptions dispensed was 38,920, at a total cost of 1,148*l.* 5*s.* 10*d.*, giving an average cost per script of 7.084*d.*

Wilts.—The Insurance Committee met at Trowbridge on July 26, when Miss K. Stephenson was re-elected Chairman. The Panel Committee had selected ten stock mixtures and had notified panel practitioners and chemists. A resolution was carried protesting against the use of such mixtures on the ground that it was a reversion to the condemned club practice and was detrimental to the interests of the insured persons.

Yorkshire (West Riding).—The Insurance Committee met on July 27, when a further letter was read from Mr. H. Robinson, chemist, Baildon, repeating his intention to terminate his agreement at an early date. The Clerk was authorised to take any further action that in his opinion may be necessary in the circumstances.

SCOTLAND.

Drug Tariff.—Appendix VII. of the Tariff for Drugs, Appliances, and Dispensing Charges was issued on August 1.

Dumfries and Maxwelltown.—At a meeting of the Insurance Committee held last week, Mr. Kemp raised the question of the charge made by chemists for bottles. Ex-Provost Nicholson said the chemists would take the bottles back and refund the money. They would, of course, only take those bottles bearing their own label. The charge of 2*d.* for bottles was in keeping with the times. It was reported that the three doctors affected had offered to pay the whole of the deficit of 202*d.* in the chemists' accounts for the past two years (due to the prescribing being on a higher scale than in other districts), so that the chemists would not suffer any loss. The doctors, in making the payment, wished it to be understood that they did so *ex gratia*, and that it was not to form a precedent. They made the payment not under compulsion, but because the chemists had to pay for their material, and therefore it would be a special hardship to them to suffer abatement of their accounts. The Clerk said that the chemists' bills for the current year were very much reduced as compared with the previous year, so that no further difficulty need arise. Ex-Provost Nicholson, on behalf of himself and his brother chemists, thought the doctors had behaved both generously and handsomely. Chemists would appreciate the action of the medical men all the more, seeing it was taken without any pressure.

WALES.

Cardiff.—Mr. J. A. Jones has resigned from the Pharmaceutical Committee, and Mr. S. B. Eason has been appointed in his place.

Cardiganshire.—At the quarterly meeting of the Cardiganshire Insurance Committee it was reported by the Clerk that the payments to chemists for the quarter ended June 30 last were delayed as he had not yet had the return from the Prieging Bureau. Mr. Lima Jones, chemist and druggist, inquired whether the Clerk could hold out any hope as to the return of the 10 per cent. deducted from the chemists' accounts last year. The Clerk replied that he had every hope that the 10 per cent would be paid. They were in a better position in regard to the Drug Fund than almost any county in Wales. Dr. Davies inquired whether there was any hope of the doctors getting their 20 per cent. The Clerk said 20 per cent. was deducted on account of the large number of men who had joined the Army.

Note.

INSURANCE ACT DEFECTS.—A memorandum on the working of the National Insurance Acts has been submitted by the National Medical Union to the Commission of Investigation appointed by the Faculty of Insurance. It advocates the repeal of the Medical Benefit section of the Insurance Acts on the ground that the panel system is an admitted failure, involving the following among other defects:

Pressure by Committees, leading to the prescribing of cheap and inferior drugs and stock mixtures, with, in addition, what amounts to a pecuniary bribe (the "floating sixpence") to keep down the drug bill.

Perfunctory attention, due to congested waiting-rooms and lack of time for examination of patients.

Dissatisfaction of those insured persons who, preferring to employ the doctor of their choice, have in consequence to forfeit their Medical Benefit and pay twice.

Belgian Galenicals.

THERE is still a difficulty in some parts of the country in getting Belgian prescriptions dispensed, and it is suggested by M. Leon Maertens, a Belgian chemist who is living in this country, that we should be doing a service to Belgian refugees and to British chemists if we would publish formulæ for some of the most-used galenical preparations of the Pharmacopœa Belgica. It will be remembered that in *The Chemist and Druggist Diary* 1911 we published a comparison of the galenical preparations of the Belgian and British Pharmacopœias which holds good in so far that the Pharmacopœa Belgica 1906 was analysed, but the new British Pharmacopœia will have affected some of the comparisons. Mr. V. Renneboog contributed an article to the *C. & D.*, March 13, 1915, p. 94, in which he gave useful notes as to the peculiarities of Belgian prescriptions. The following official formulæ should be considered as a supplement to the information given previously. The quantities named are by weight unless otherwise stated. The synonyms are those by which the official preparations

are asked for in pharmacies. These will be useful to those chemists who have Belgian customers.

ACETUM AROMATICUM. <i>Vinaique Aromatique.</i>		SIRUPUS ANISI. <i>Sirop d'Anis.</i>	
Cologne-water	930	Spirit of anise	30
Benzoin tincture	10	Simple syrup	970
Acetic acid (sp. gr. 1.064) ...	60	SIRUPUS CHINE CUM KALIO IODATO.	
AQUA HEMOSTATICA. <i>Eau de Pagliari; Eau Hemo- statique.</i>		<i>Sirop de Vanier.</i>	
Benzoic acid	2	Fluid extract of cinchona with potass. iod.	100
Benzoin tincture (1 in 5 of 80° alcohol)	10	Simple syrup	900
Alum	80	SIRUPUS IODOTANNICUS. <i>Sirop Iodotannique.</i>	
Warm water to make	1,000	Concentrated iodotannic syrup	100
AQUA PICIS. <i>Liqueur de Goudron.</i>		Simple syrup	900
Tar	100	Dose: One teaspoonful three times a day.	
Sodium bicarbonate	20	SIRUPUS IODOTANNICUS CONC. Tannic acid	4
Water	1,000	Tincture of iodine (10-per- cent.)	20
AQUA SEDATIVE. <i>Eau Sedative.</i>		Simple syrup	76
Sodium chloride	60	SIRUPUS IPECACUANHE COMPOSITUS. <i>Sirop Desessartz.</i>	
Solution of ammonia (sp. gr. 0.935)	60	Compound fluid extract of ipecacuanha	50
Spirit of camphor (1 in 10 of alcohol 80°)	10	Simple syrup	950
Water	870	SOLUTION ALUMINIUM ACETICO- TARTARICUM. <i>Liqueur de Burou.</i>	
AQUA PHENOLATA. <i>Eau Phenique.</i>		Aluminum sulphate	100
2 per cent. aqueous solution of carbolic acid.		Dilute acetic acid (30-per- cent.)	120
EXT. FLUID. CHINE CUM KALIO. IODATO. <i>Extract Fluid pour Sirop de Vanier.</i>		Calcium carbonate	44
Potassium iodide	3.00	Water a sufficiency (about 335) Make a liquor of sp. gr. 1.044-1.048.	
Fluid extract of cinchona 25.00		SPECIES FLORUM PECTORALIIUM. <i>Fleurs Pectorales; Thé des Quatre Fleurs.</i>	
Fluid extract of orange- peel	5.00	Equal parts of the flowers of mallow, marshmallow, gnapha- lium, and verbascum.	
Fluid extract of juglan- dis	50.00	SPECIES LAXANTES. <i>Thé St. Germain.</i>	
Alcohol (30°)	16.70	Spirituous extract of senna ...	6
Anethol	0.30	Anise-fruit	1
EXT. FLUID. IPECACUANHE COMP. <i>Extract Fluid pour Sirop Desessartz.</i>		Fennel-fruit	1
Tincture of ipecacuanha (1 in 5 of alcohol 60°) ...	30	Liquorice-root	2
Fluid extract of senna	30	SPIRITUS ANISI. <i>Espirit d'Anis.</i>	
Fluid extract of red poppies	20	Anethol	10
Spirit of orange-flowers	2	Alcohol (80°)	990
Alcohol	16	TINCTURA IODI. <i>Teinture Iode.</i>	
LIQUOR SUBLIMATI CORROSIVI. <i>Liqueur Van Swieten.</i>		Iodine	100
Mercury perchloride	1	Alcohol	900
Alcohol	100	TINCTURA JALAPPE COMPOSITA. <i>Eau de Vie Allemande.</i>	
Water	899	Jalap resin	10
OLEUM HYOSCIAMI COMPOSITUM. <i>Baume Tranquille.</i>		Scammony resin	15
Hyoscyamus oil	996	Tincture of ginger	25
Lavender oil	1	Alcohol (80°)	950
Peppermint oil	1	The dose as an aperient is 15 grams with 10 grams of sirop de nerprun (buckthorn).	
Rosemary oil	1	UNGUENTUM CAMPHORE. <i>Onguent or Pommade Camphrée.</i>	
Thymol	1	Camphor	20
Keep in a dark place.		Simple ointment	80
PILULE ALOES COMPOSITÆ. <i>Pilules de Haen.</i>		(Simple ointment is equal parts of vaseline and lanoline.)	
Aloes	10 grams	UNGUENTUM SULPHURIS ALCALINI. <i>Pommade d'Helmerich.</i>	
Scammony resin	3 grams	Potassium carbonate	100
Jalap resin	3 grams	Water	50
Powdered ginger	4 grams	Sulphur	200
Soap	10 grams	Lard	650
Divide into 100 pills. Dose: one or two.		The following are a few drugs often met with among Belgians: Adæps suillus or axonge= adæps præparatus. Ether pour narcote=purified ether. Liquore d'Hoffman or simply Hoffman=spiritus ætheris. Huile camphrée=lin. camphoræ (10-per-cent). Limaillé de fer=pulvis ferri. Pastilles de salinæ=am- monium chloride tablets. Sel de Carlsbad=Glauber's salt in pea crystals.	
POTIO MAGNESII CITRICI. <i>Limonade Purgative; Limonade de Rogé.</i>			
Citric acid	30		
Light magnesium car- bonate	18		
Water	200		
Syrup of citric acid	50		
Take half at once and the other half in half an hour's time.			
SIRUPUS ÆTHERIS. <i>Sirop d'Ether.</i>			
Ether	20		
Alcohol	50		
Water	230		
Simple syrup	700		

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., August 10, 5.30 p.m.

QUIET conditions continue to rule in the chemical and drug markets, and the tendency of prices generally is still downwards. Bromides are still being severely cut by importers and dealers. Codeine alkaloid and salts have been reduced by 1s. per oz. Acetanilide and salol are offered at lower prices. Tartaric and citric acids and cream of tartar are easier. Montreal potashes are lower. Quinine is easier. No business is passing in cocaine or opium as no licences have yet been granted by the Home Office. Saccharin continues very scarce. Among drugs and oils senega and Japanese refined camphor are dearer. Squill and Sudan acacia gums are easier. Liquorice-juce (sticks) are very scarce and likely to be dear for a lengthy period. True almond and peach-kernel oils are 1d. lower. Lycopodium has been selling at lower rates. Coriander, cumin, and linseed are dearer.

Higher	Firmer	Easier	Lower
Camphor (Jap. ref.)	Ammonia sulphate	Acetic acid	Acetanilide
Coconut oil (Coch. spot)	Hydrastis	Arsenic	Almond oil (B.P.)
Coriander-seed	Linseed oil	Cream of tartar	Citric acid
Fenugreek-seed	Petroleum	Cottonseed oil	Codeine
Linseed		Gum acacia (Sudan)	Peach-kernel oil
Senega		Hexamine	Potashes (Montreal)
Shellac		Quinine (see. hands)	Salol
Sulphur		Squill	Tartaric acid
		Turpentine	
		Wood oil	

Cablegram.

NEW YORK, August 9.—Business in drugs is quiet. Opium is lower at \$10.90 per lb. Menthol has been advanced to \$3.00. Peppermint oil is steady at \$1.80, and Cartagena ipecacuanha has been advanced to \$1.75. Burdock-root is easier at 24c. and Mexican sarsaparilla at 12c. Buckthorn-bark is dearer at 36c., and hydrastis (golden Seal) has been advanced to \$4.80 per lb.

ACETANILIDE.—Owing to the decline in aniline oil, prices to come forward are lower at from 3s. 10d. to 4s. net, and for prompt delivery from 4s. 9d. to 5s. is quoted.

ACETIC ACID is easier, 80-per-cent. pure offering at 120s. in casks, and glacial at about 230l. per ton.

ACETYL-SALICYLIC ACID.—Most of the makers appear to be plentifully supplied with orders, but price-cutting is secretly going on; fair current values are from 36s. to 37s. 6d. The bulk of the English production is not yet B.P.; but the drug-trade appears to be coming resigned to this fact.

ALMOND OIL.—The English pressers have reduced their prices of ol. amygdalæ B.P. by 1d. per lb. to 2s. 8d. in cwt. lots, and smaller quantities 2s. 9d. *Persic* oil expressed from peach or apricot kernels has also been reduced 1d. per lb. to 1s. 4d. net in 1 cwt. lots, and 1s. 5d. net for smaller quantities.

AMERICAN BARKS, ETC.—The following are a few current net quotations, mostly for prompt delivery. *Barks*, Bayberry, 8d. to 8½d.; sassafras of root, 11½d. to 1s.; viburnum prun., 1s. 1d. to 1s. 2d.; euonymus, 1s. 10s. to 1s. 11d.; thin wild cherry, 8½d. to 9d.; and witch-hazel, 7½d. to 8d. per lb. *Leaves*, damiana, 9d. to 9½d.; witch-hazel, 7d. to 7½d. *Roots*, Leptandra, 8½d. to 9d.; kava-kava, 1s. 4d. to 1s. 5d.; podophyllum, 90s. to 95s. per cwt.; Mexican sarsaparilla, 10d.; and serpentina, 1s. 10½d. per lb.

AMIDOPYRIN is quiet at from 65s. to 66s. per lb.

AMMONIA SULPHATE is firmer at 16l. 15s. per ton net, naked at works in London, for 25-per-cent. ammonia, the home trade price being fixed at 15l. Hull prompt (24-per-cent.)

is 17l. 15s.; Liverpool is 2s. 6d. higher at 18l., and Leith-Glasgow 18l. for September-October shipment, less 3½ per cent. in bags f.o.b.

ANISEED is unchanged at 52s. 6d. to 53s. 6d. per cwt. for good Spanish on the spot.

ATROPINE.—Sulphate in very small lots can be had at 155s. per oz.

BALSAMS.—*Tolu* is held at 1s. 7d. to 1s. 8d. for good hard; filtered *Para Copaiba* at 3s. 2d., and B.P., at 3s. 6d. *Canada fir* can be had at 4s. per lb. net.

BERGAMOT OIL.—A Sicilian advice dated July 23 reports some inquiry, and holders have increased their prices with every fresh demand. The London spot price is 17s. 6d. to 17s. 9d.

BETA-EUCALINE HYDROCHLOR.—In view of the difficulty in obtaining supplies of cocaine this anæsthetic should be of interest to dentists, especially as it is being made in this country. About 42s. per oz. is the price.

BLEACHING-POWDER.—Small lots are offered at 25l. per ton.

BROMIDES.—It is understood that the recent heavy reduction was made with a view to freezing out new American makers, and in view of these developments it is impossible to predict the future course of prices. On this side price-cutting among importers and dealers has been severe, and some exceptionally low rates have been taken for potassium, it being believed that there is now little risk in stocking at present rates. The English makers quote potassium at 7s., ammonium at 6s., and sodium at 5s., but these rates are nominal, and a fair current value for potassium is 6s. to 6s. 6d., sodium 4s., and ammonium 5s. 3d. To-day we hear that potassium crystals have been sold in quantity at 5s. 6d. to 5s. 9d. Following the recent reduction in bromides, American makers have lowered the quotations for technical bromine on July 23 from \$2.50 to \$1.40, and in the U.S.P. grades from \$2.60 to \$1.50 per lb. The recent reduction of potassium bromide (says a New York mail advice of July 27) to \$1.35 has stimulated the demand.

CAJUPUT OIL.—Green is offered at 3s. 6d. per lb. net on spot and slightly less for case lots.

CAMPOR (REFINED) is dearer, Japanese slabs being held for 2s. 6d. on the spot. Sales of ¼-oz. tablets have been made at from 2s. 2d. to 2s. 4d. on the spot.

CANARY-SEED is steady at 60s. to 62s. 6d. per quarter for fair to good Morocco on the spot.

CARAWAY OIL.—Spot supplies of B.P. double rectified (s.g. 0.81) are available at from 12s. 6d. to 13s. per lb.

CARAWAY-SEED is very scarce, and is quoted 100s. to 102s. 6d. per cwt. for fair Dutch on the spot.

CINCHONA.—The bark shipments from Java to Europe during July 1916 amounted to 2,086,000 Amst. lb., against 1,004,600 Amst. lb. in 1915. The total shipments from January to July 1916 amounted to 9,214,134 Amst. lb., against 5,932,600 Amst. lb. in 1915. The auction to be held at Amsterdam on August 24 will consist of 1,848 packages pharmaceutical bark weighing 103,022 kilos. The first-hand stock at Amsterdam on August 3 consisted of 7,677 packages Government and 34,593 packages private bark, including the first-hand packages to be offered on August 23 and 24.

CITRAL of best quality is offered at 21s. per lb. net.

CITRIC ACID has further eased to 3s. 2d. per lb. on the CLOVE OIL.—English distillers quote from 5s. 10d. to 6s. per lb., as to quantity.

spot, at which sales have been made.

CLOVES are dearer with sellers of fair Zanzibar at 6½d. per lb.; to arrive July-August shipment 6½d. c.i.f. is quoted.

COCAINE.—No licences appear to have yet been granted to deal in cocaine, so that business remains at a standstill, and prices are unchanged. There are some important inquiries from abroad. It is expected that strict supervision will be exercised in the granting of licences, and it is probable that the speculative dealer will be eliminated from the business.

COCA-LEAVES.—The exports from Java to Europe during July 1916 amounted to 38 packages, against 1,060 packages in 1915, and the total exports from January to July 1916 were 2,495 packages, against 14,575 packages in 1915.

CODEINE.—The alkaloid, pure crystals, and salts have been reduced by 1s. per oz. to 21s. to 21s. 6d. per oz. net as to quantity; phosphate is 17s. to 17s. 6d., and hydrochloride and sulphate 18s. to 18s. 6d. per oz. net as to quantity.

COD-LIVER OIL.—Our Bergen correspondent writes on July 31 that the market continues quiet, the price remaining without change at about 550s. per barrel for finest quality non-congealing oil.

CORIANDER-SEED is dearer, with sales of fair Morocco at 23s. per cwt., and 24s. is now asked.

CUMIN-SEED is nominally worth 80s. per cwt. on the spot, but there is very little stock, and it is difficult to get offers for shipment from Morocco.

PENUGREEK-SEED is dearer, 18s. per cwt. being now asked for fair Morocco.

GENTIAN.—An arrival of 193 bales has taken place from Spain.

GOLDEN SEAL has been gradually advancing in America: spot holders ask 22s. to 22s. 6d. net as to quantity.

GUAIACOL CARBONATE.—Consignments of the parcels recently sold are now coming forward, but there is still a scarcity; 120s. is quoted to arrive.

GUM THUS is offered at from 32s. 6d. to 35s. per cwt. on the spot.

HEXAMINE is easier at from 3s. 3d. to 4s. per lb. as to quantity and seller.

LEMON OIL.—A Sicilian report dated July 28 reports that very little business was done during the week, and prices are almost unaltered. The aloofness of holders has rendered speculators more active. These speculators believe that in spite of the important stock of last crop future prices cannot remain as low as those at present ruling, especially as they think that the new production will be handicapped by the scarcity of labour in consequence of the war: market on the whole has rather a firm aspect. London market is very flat.

LINSEED is dearer, being quoted about 80s. per quarter for good quality.

LIQUORICE-JUICE.—Good Italian block is quoted at 175s. per cwt. on the spot: sticks are scarce, the usual imported brands offering at from 150s. to 160s.

LITHIA CARBONATE is offered at from 4s. 6d. to 4s. 9d. per lb. as to quantity.

LYCOPodium.—Sales of treble sifted have been made at 6s. per lb., with 6s. 6d. asked for small lots.

MUSK (ARTIFICIAL) powder or crystal (100 per cent. xylol) is offered at 38s. 6d. per lb. net.

OILS (FIXED).—*Linseed* is dearer at 37s. 9d. in pipes on spot and 38s. 9d. in barrels. *Cottonseed* is easier at 39s. for crude in pipes on spot, 43s. 6d. to 44s. for refined in pipes, and 50s. to 52s. for sweet refined in barrels. *Rape* is firm; ordinary brown naked on spot is nominal at 40s., British refined in barrels is 48s. to 50s., and Japanese in cases 39s. c.i.f. for August-September shipment. *Coconut* is cheaper at 50s. for Ceylon in hogsheads on spot and 48s. in pipes. *Cochin* on spot is 54s. to 56s., and London pressed is 42s. per cwt. *Hankow Wood oil* is 52s. spot and 48s. c.i.f. *Soya* is firm at 37s. 6d. c.i.f. for August-September shipment; *Hull crushed* is 41s. 6d., and extracted 38s. 3d. *Lagos Palm* is 40s. on spot, and 33s. in Liverpool. *Castor* is quiet at 4½d. per lb. ex store Liverpool for good seconds Calcutta.

OPTUM.—Business remains suspended, and although brokers and wholesale druggists have applied for licences to deal in the drug, none appear to have been granted as yet.

ORANGE OIL.—A Sicilian advice dated July 28 reports that the slight demand which appeared during July falling on a market short of stock was sufficient to increase prices. In London agents quote 11s. to 11s. 7d. per lb. c.i.f. terms, and 11s. on the spot. *West Indian* oil can be had at 7s. net.

OTTO OF ROSE.—A genuine otto of high-grade quality with London analysis is offered at from 35s. 6d. to 36s. 6d. per oz. net.

PEPPERMINT OIL.—American oil in tins is firmer at 8s. 9d. to 9s. per lb. net on the spot, and rather more attention is being paid to the article. American holders are inclined to offer limited quantities only. H.G.H. is 12s. 9d. to 13s. per lb. London terms.

PETROLEUM has advanced ½d. per gallon to 1s. 1½d. for ordinary refined American, and to 1s. 2½d. per gallon for water-white.

PHENACETIN remains extremely scarce at 95s. per lb. nominally.

PHENAZONE is quoted at 52s. 6d. per lb.

PHENOLPHTHALEIN for September delivery is offered at the lower rate of 70s. per lb.

POTASH CARBONATE.—Several consignments of Russian (85 to 90 per cent.) are available at 130l. per ton net.

POTASH IODIDE.—Japanese is offered at from 12s. 6d. to 13s. per lb. on the spot.

POTASH PERMANGANATE very quiet at from 6s. 9d. to 7s. per lb.

POTASHES.—Montreal are again lower, first Government branded offering at 165s. on the spot, and to arrive at a few shillings less.

QUININE.—Second-hands offer sulphate at 2s. 9d. per oz., being a trifle easier. Home trade is quiet, but there is a fair export demand. *Makers'* prices are unchanged.

SALICYLATES.—Business continues very dull and, owing to the declining tendency of the market, no large contracts are being placed, especially as the output both in this country and abroad is increasing.

SENEGA is dearer on spot at from 2s. 4d. to 2s. 5d. net, all the cheaper priced lots having been cleared. America

also reports a gradual advance following a larger export demand.

SHELLAC has shown a rapid advance with an improved demand, the spot prices showing a rise of 10s. to 11s. per cwt. during the week, usual standard TN quality closing at 120s. to 121s., fine Orange 137s. 6d. to 145s., AC Garnet 102s. 6d., and GAL 105s. to 106s. A large business has been done for delivery.

SODA CAUSTIC is offered at 29l. per ton in limited quantities for 76-per-cent. and slightly less to come forward.

SQUILL.—Fair white are obtainable at the easier rate of 65s. per cwt. on the spot. An arrival of 106 bags has taken place.

SULPHUR is dearer at from 15l. 10s. to 16l. 10s. per ton for either roll or flowers ex wharf.

TARTARIC ACID.—Spot prices are very irregular, varying from 2s. 11d. to 3s. per lb., and even 3s. 2d. in some quarters. Crystals are scarce. Italian makers seem inclined to hold their stocks.

TURPENTINE is about 6d. per cwt. cheaper on the week, American on the spot closing at 42s. and September-December at 42s.

VANILLIN from clove oil is offered at from 34s. to 36s. per lb. net.

Arrivals of Chemicals, Drugs, etc.

The following is a selection of arrivals during the period from August 2 to 8, inclusive, in the English ports named. Goods in transit are not included. The figures refer to the packages—e.g., cases, bags, barrels, boxes, kegs, etc. The weights, when known, are specified:

To London.			
Acetic acid 54 cbsys.:	G. tragacanth 46	Soya-bean oil 4,550	
glacial (N.Y.) 11	bgs. 4 cs.	pkgs.	
brls., (R'dam) 34	Gums, undescribed	Sticklac 112 cs.	
blus.	(A'dam) 50 cs.	Tannic acid 15 brls.	
Agar-agar 45	(Karachi) 117 cs.	Tartar (Sic.) 32 cks.	
Albumen 458 cs.	(B'bay) 306 bgs.	(Sp.) 109 brls.,	
Alumina sulph. 50	175 cs.	(Fr.) 318 bgs.	
Anatto-seed (E.I.) 27	Hellebore (Fr.) 143	Tartaric ac. (It.) 50	
Antim. crude (Ch.) 520 cs.	Herbs (Egypt) 42	brls., (Fr.) 25 cs.	
Antim. ore 3,995	bls.	Thorium nit. (N.Y.)	
Antitoxin (N.Y.) 8	Honey (N.Y.) 80,	17 cs.	
Arachis oil 6,400	(N.Z.) 125 cs.	Turmeric (E.I.) 103	
Argol (Sic.) 257,	Illipe nuts 1,936	Vanilla (N.Z.) 97 cs.	
(Port.) 170, (Fr.)	Indigo (E.I.) 33	Wax, bees' (Egypt)	
155	Kola 17 bgs.	38, (Natal) 95,	
Arsenic (Port.) 100	Linseed (E.I.) 32,401	(Beira) 11 blocks	
eks.	bgs.	30 pkgs., (L. Mar-	
Barytes (Sp.) 308	Liquorice (It.) 15 cs.	ques) 29, (Aden)	
Calcitane (N.Y.) 36	Liq.-root (Sp.) 135	12, (Sp.) 21 cs.	
dms.	bls.	Wax, veget. (Jap.)	
Calc. carbide 900 cs.	Magnesite 961 bgs.;	28	
5,250 dms.	lump 1,502	Wood oil (Ch.) 326	
Calc. citrate (Sic.)	Menthol 120 cs.	cs.	
267 eks.	Milk-sugar (N.Z.) 140		
Camphor and cam-	cs.		
phor oil 625 cs.	Mint oil and crystals		
Camphor ref. 43 cs.	80 cs.		
Cascin (Fr.) 879	Myrrh (Aden) 6		
Cassin fist. 103	Nutmegs 50		
Castor oil (E.I.) 1,830	Nux vom. 427		
eks.	Olibanum 15		
Castor-seed 2,731	Olive oil (Sp.) 191		
Chemical products	cs. 136 brls., (Fr.)		
(Fr.) 143 eks, 80	537 cs.		
pkgs., (N.Y.) 31	Opium (E.I.) 22 cs.		
brls. 135 pkgs.	Palm-kernels 38,358		
Chemicals and per-	bgs. 1,128 tons		
fumery (Fr.) 11	Pepper, white 756;		
pkgs.	black 1,417		
Chillies (Natal) 311	Peppermint oil		
Cod oil (Jap.) 500 cs.	(Montreal) 6 bxs.		
Copra 443	Perfumery (Fr.) 20		
Cottonseed 5,992	cs.		
Cream of tartar	Potash bromide		
(Kobe) 50 kgs.,	(Jap.) 15 cs.		
(Fr.) 788 pkgs.	Potash iodide (Jap.)		
Divi-divi 381	90 cs.		
Dragon's-blood 2	Rape-seed 16,882 bgs.		
Drugs and chemicals	Rap. oil 7,550 cs.		
(N.Y.) 44 pkgs., 10	Rhubarb (Ch.) 73 cs.		
cs., (Fr.) 27 pkgs.	Roots, barks, herbs,		
Drugs and perf.	etc. (Sp.) 41 pkgs.		
(Fr.) 8 cs.	Sahyolic acid (N.Y.)		
Essent. oils (Sic.) 52	10 cs.		
cs., (Sp.) 8 brls.,	Saltpetre 6,350		
(N.Y.) 35 cs.	Sanatogen (Fr.) 110		
Galls (Ch.) 381	cs.		
Gamboge (S'pore) 8	Scammony root		
Gentian (Sp.) 193	(N.Y.) 136		
bls.	Senna (P. Said) 56		
Ginger (W. Af.) 253	Sesame-seed 93,170		
Glucose 299	Shark oil 500 cs.		
Ground-nuts 620 bgs.	Shellac 290 cs. 38		
G. chicle 20 bls.	bgs.; garnet 102		
G. copal 401	Soda hypo. (N.Y.)		
G. damar 786	27 brls.		
G. kauri 740 cs.	Soda oxalate (Fr.) 25		
	eks.		
	Soda sulphate (Fr.)		
	28		
	Soy 278 eks.		

To Liverpool.

Acetic acid (Boston)	
69 brls.	
Albumen 577 cs.	
Ammon. anhyd. 240	
eyl.	
Antim. ore 580	
Arachis oil 11,250 cs.	
Araroba 20 cs.	
Argol (Port.) 16	
Balsams (Marta) 120	
cs.	
Barytes (Sp.) 1,600	
Bismuth ore 1,193	
Castor-seed 195	
Chillies 181	
Citric acid (Fr.) 124	
eks.	
Cloves (Zan.) 300;	
stems 800 bls.	
Cocaine, cr. (Colon) 9	
cs.	
Coconut oil 563 brls.	
Cod oil (Jap.) 1,000	
cs.	
Cod-liver oil (Jap.)	
153 cs.	
Condurango 173	
Copra 13,040 bgs.	
Cream of tartar	
(Fr.) 97 eks., (Sp.)	
10 cs., (Port.) 10	
eks.	
Datura (P. Sudan)	
11 bls.	
Divi-divi 2,459	
Drugs, etc. (Fr.) 282	
cs., (N.Y.) 127	
Essent. oils (N.Y.)	
30 cs.	
Fish oil (Jap.) 500	
cs.	
Galls (Ch.) 152	
Ginger (Af.) 1,088	
Glycerin, cr. (Sp.) 38	
dms., (N.Y.) 8 dms.	
Ground-nuts 6,549	

G. acacia (P. Sudan) 2,060	Lavender oil (Sp.) 10 cks.	Perfumery, etc. (Fr.) 44 cs.
G. copal 10 cs.	Lime-ju. (W.I.) 10 pus.	Pimento 200
Gums, undescribed (Lisbon) 28	Linseed (E.I.) 8,027 bgs.	Rhatany 46 bls.; sweepings 12 kss.
Herbs (Sp.) 4 bls. 66 bgs.	Liquorice-ju. (Fr.) 85 cs.	Roots, barks, herbs, etc. (N.Y.) 34 bls.
Honey (Curacao) 186, (N.Y.) 405 bls., (Jam.) 17 cks.	Mastich 7 cs.	Soda bichrom. 10 cks.
Illipe-nuts 2,813	Menthol 50 cs.	Tartar, cr. (Fr.) 49 bls., 97 bgs.
Indigo (S'pore) 28 bls.	Mint oil (Jap.) 25 cs.	Tartaric ac. (Fr.) 80 cks.
Ipecac. (Cort.) 18, (B. Aires) 27	Nutmegs 168	Turpentine (U.S.A.) 2,000 bls.
Kola (W.C. Af.) 80	Olibanum 165	Wax, bees' (R'dam) 20 cs., (Fr.) 10 cs.
Lactic acid (U.S.A.) 66 bls.	Orange-peel (Fr.) 34	19 pkgs., (Santos) 548
Lavender flow. (Fr.) 7 bls.	Palm-kernels (Fr.) 955, (W.C. Af.) 21,762 bgs. 1,490 tons	Wax, carnauba 1,391
	Palm oil (W.C. Af.) 1,905 cks.	Whale oil 5,860 cks.
	Pepper, white 195	

To Polkstone.—Drugs (Fr.) 67 pkgs.; perfumed spirits (Fr.) 9 cs.; perfumery (Fr.) 54 pkgs. **To Goole.**—Canary-seed (Sp.) 100; colours 138 cks.; olive oil, unrefined (Sp.) 155 bls. **To Grimsby.**—Colours (Fr.) 1,031 pkgs.; dyes (Fr.) 110 bls.; tannic acid (Fr.) 20 bls. **To Hull.**—Acetic acid (N.Y.) 46 bls.; chemicals (Fr.) 182 bgs.; essent. oils (Sic.) 28 cs.; formaldehyde (N.Y.) 212 bls.; formic acid (R'dam) 60 bls.; gum copal 12,697 bgs.; lead acetate (N.Y.) 31 bls.; linseed (E.I.) 19,545 bgs.; liquorice-ju. (It.) 90 cs.; olive oil (It.) 38 pkgs.; palm-kernels 29,876 bgs.; palm oil 390 cks.; rape-seed 20,234 bgs.; roots, leaves, etc. (It.) 16 bls.; sulphur (Sic.) 3,568 pkgs.; tartaric acid (It.) 20 bls. **To Manchester.**—Acetic acid (N.Y.) 98 bls.; ammonia (U.S.A.) 100 cyl.; antimony salts (Fr.) 31 cs.; betanaphthol (N.Y.) 14 bls.; calcium phosphat (U.S.A.) 103 bls.; glucose 4,015; lactic acid (R'dam) 45 cks.; liquorice-paste (U.S.A.) 200 pkgs.; soda caustic (U.S.A.) 500 dms.; tartar emetic (N.Y.) 6 cks. **To Southampton.**—Casein (Fr.) 100.

Drugs and Spices.

In the course of an article on the Port of London in the "Times" Trade Supplement it is stated that the drug department at the Authority's warehouse in Cutler Street is displaying exceptional activity as the result of the war. An increasing quantity of high-class drugs is arriving from abroad, and in dealing with these the experts are very much in evidence. That their duties are efficiently performed is testified by the fact that it is most unusual for consignees to carry out for themselves these sorting and grading operations. In no other port of the country is such care and skilled knowledge applied to such an extraordinary variety of commodities as in the Port of London. Indeed, the excellence of this side of the Port's work is traditional, and vast quantities of goods are consigned to London simply to secure the benefit of the "hall-mark" which the examination and classification by the Authority confers.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets up to July 19:

AMMON. CARB. is firmer, due to the prohibition of imports. Inland stocks are offered at from m.160 to m.165.

BENZOIC ACID and **SODIUM BENZOATE** are in active demand, but all orders cannot be executed; prices vary from m.750 to m.800 per 100 kilos.

CANARY-SEED is getting scarce, and cannot be imported; Dutch is quoted m.165 to m.170; first sifted Spanish at from m.175 to m.180. The War Distribution Committees offer small quantities at from m.105 to m.110 per 100 kilos.

CEVADILLA.—The demand has increased, and the price has advanced to from m.465 to m.470 per 100 kilos. for first whole black and from m.490 to m.520 for powdered.

GALLIC ACID is not obtainable in sufficient quantities, but it is expected that raw material will shortly be more plentiful; price is from m.9 to m.10.

MENTHOL remains cheap at m.48 per kilo.

NAPHTHALINE remains very active, as only small quantities are manufactured and the army requires enormous quantities. The prices have advanced; from m.100 to m.105 per 100 kilos, is asked.

OPIMUM is a little higher again; nothing can be said about the new crop as yet. According to reports from Constantinople there is a stock of 911 cases, against 365 at the same period of 1915. From June 10 to June 30, 20 cases were sold in Constantinople.

PEPPERS are again higher in consequence of active demand and rapidly diminishing stocks. Hamburg quotations are now from m.1,140 to m.1,150 for white washed Muntok, from m.1,130 to m.1,140 for first white Singapore, from m.1,080 to m.1,090 for black Singapore or genuine Tellicherry, and from m.1,070 to m.1,080 for black Lampong.

SILVER NITRATE.—As the price of metal has increased, the price of silver nitrate is also higher at from m.110 to m.115 per kilo.

VANILLIN.—Second-hands are almost cleared, and makers ask from m.121 to m.124 per kilo.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Intramaine and Ferrivine.

T. Goddard Nicholson, M.B., B.Sc. (Lond.) (Medical Officer London Fever Hospital, N.), writing in regard to The British Drug Houses' letter on this subject (*C. & D.*, July 22, p. 51), says the statements of these Army surgeons was in no way refuted by Mr. MacDonagh's letter of June 24. He considers that when a Hunterian Lecture is published its readers have a right to expect that any new discoveries will be explained in the conventional terms used by scientific men, and in such a fashion as will be understood by average science workers. His interest was aroused in the promised exposition of these iron and sulphur derivatives, with the view to employ them in the treatment of fevers. He has read the "Links Lectures," but each perusal left him more puzzled to comprehend the physico-chemical theories therein hypothesised. To turn from the "Links" to chemical articles in the "Extra Pharmacopœia" or the "Companion" is, he considers, refreshing in their clearness of diction and experimental records.

Medicine-stamp Reveque.

SIR,—I have read your article on "Medicine-stamp Revenue" (*C. & D.*, August 5, p. 43), and note your comment that the double duty has not reduced the consumption of stamped medicines. Allow me to point out that you have overlooked the fact that there were already probably millions of patent medicines in the hands of the wholesale and retail trades which had to be stamped. A vast number of these most likely are still unsold. I think it is, therefore, impossible to form yet a reliable opinion as to the effect the double duty is going to have. I have heard many chemists say that they now sell fewer stamped medicines. A great many of the known formula preparations are being pushed.

Cardiff.

Yours truly,

MORGAN W. JAMES.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

An Irish Order.

R. T. B. (33/26) writes from Ireland: "I constantly see amusing notes under 'At the Counter' in the *C. & D.*, but I don't think you have yet beaten this order for Scott's Emulsion: 'Bottel Cotch Mouchlin.' It was only after many inquiries I discovered what was required."

Ethiops Mineral.

X. (244/9), following up the remarks of "Phoenix," says: "Ethiops mineral is by no means obsolete in popular veterinary practice, being a fairly common ingredient in 'condition-powders' of the more esoteric kind. It has undoubtedly some action on the skin if given in sufficiently large doses, unless (that is) it consists mainly of ivory black, which, it is said, used to be sometimes the staple of the preparation. Strictly speaking, white sulphate of mercury is not turbit mineral, but the old vitriol of mercury prepared by treating quicksilver with about twice its weight of oil of vitriol by the aid of heat. The white mass produced (says Nicholson) 'consists partly of a saline mass, or vitriol of mercury, and partly of a calx, or mercury united to vital air.' This is virtually the hydrargyri persulphas of the Dublin Pharmacopœia, in the preparation of which, however, nitric acid was also used. To make turbit mineral (hydrarg. oxyd. sulphuricum, D.) this white persulphate was washed repeatedly in hot water, becoming yellow in the process."

Price of Mixture.

Fid-tis (253/55) asks for the opinion of *C. & D.* readers as to a fair price for the following mixture:

Sodii salicyl. (natural) ...	5iiss.
Tinct. guaranæ ...	5iij.
Tinct. sumbul ...	5vj.
Tinct. cimicifugæ ...	5vj.
Sodii bicarb. ...	3ij.
Aq. menth. pip. ad ...	3xij.

Miscellaneous Inquiries.

A. W. S. (5/13).—BOOK ON WOOD-DISTILLING.—Dumesny and Noyer's "Wood Products: Distillates and Extracts" (Scott, Greenwood, 10s. 6d.).

E. W. (11/60).—(1) Wijnsteczuur is Dutch for cream of tartar. Ammonium rhodanide is ammonium sulphocyanide. (2) TANK DEVELOPER.—See *C. & D.*, May 6, p. 52. (3) HYPO-DESTROYER.—Anthion is ammonium persulphate. It is used as a 1-per-cent. solution, the fixed plate being immersed in the solution for a quarter of an hour and then washed.

Carina (Queensland) (12/20).—(1) MANUFACTURE OF CHEMICALS.—Thorpe's "Dictionary of Applied Chemistry" (5 vols., each 45s., Longmans) is the best general work we know of dealing with the manufacture of chemicals. (2) GROWING MEDICINAL PLANTS.—Your best plan would be to get into touch with the Department of Agriculture of your State, which should be in a position to supply you with the information you require. (3) LIQ. CALCIUM IODIDE.—A 10-per-cent. solution is made by mixing a solution of potassium iodide 11.5 and crystalline calcium chloride 7.5 in distilled water 81. (4) PURCHASING A CAMERA.—You should study the lists of a wholesale photographic-apparatus dealer. The reflex camera is a necessity in some classes of work. There is no occasion to purchase German photographic lenses, in face of the excellent lenses made by British houses.

H. H. (4/14).—We cannot conveniently supply the information you ask for.

C. E. M. (Varazze) (18/43).—SKIN-CREAM.—The following is the formula to which you refer:

Stearic acid	...	...	2½ oz.
Sodium carbonate	...	...	3 dr.
Glycerin	...	...	3 dr.
Solution of hamamelis, B.P.	...	...	12 oz.
Water to	...	...	25 oz.

Place the stearic acid on a water-bath, and when it is melted add the sodium carbonate and glycerin dissolved in 2 oz. of hot water. Heat, with constant stirring, until effervescence ceases; add water to make the product weigh 13 oz. and finally the solution of hamamelis. Stir till smooth, heating a little if necessary, and beat to a foam in a warm mortar.

C. & S. (13/69).—BOOK-WORM APPLICATION.—The following is the kind of liquid that is recommended as an application to books to prevent and destroy book-worms:

Naphthaline	...	...	3 parts
Turpentine	...	...	4 parts
Petroleum	...	...	2 parts
Carbolic acid	...	...	1 part

Mix. Apply to the book-leather with a camel-hair pencil.

E. W. (116/37).—BOOKS ON FERTILISERS.—Dyer's "Fertilisers and Feeding Stuffs" (Lockwood, 1s.); Van Slyk's "Fertilisers and Crops, or the Science of Plant-feeding" (Paul, 12s. 6d.); Hall's "Fertilisers and Manures" (Murray, 5s.). An article on the subject of fertilisers from the chemist's point of view was given in *The Chemist and Druggist* Diary, 1911.

W. A. R. (34/39).—Your query does not conform with the conditions upon which queries are replied to in this section.

Agar (13/9).—You might suggest tragacanth as a vegetable substitute for agar-agar, but we could not say definitely that it will be cheaper without a few experiments as to the quantities required. A formula for a cheap soap-paste for use as a surgical lubricant was given in the *C. & D.*, March 6, 1915, p. 60.

W. H., Ltd. (12/64).—To trace the recipe to which you refer we must be supplied with further details—e.g., for what it is used or the year in which it was printed.

G. E. R. (145/4).—MANUFACTURE OF PICKLES.—We do not know of any book dealing specially with this subject. It is treated incidentally in such works as Paerette's "Art of Canning and Preserving" (Sprague Canning Machinery Co., Chicago, 21s.) and Bräntt's "Practical Treatise on the Manufacture of Vinegar" (Low, Marston, 25s.).

Shield (39/15).—DENTAL ANÆSTHETIC WITHOUT COCAINE.—See *C. & D.*, November 13, 1915, p. 60, for formula in which novocaine replaces cocaine. The solution should be prepared under aseptic conditions. You can replace the cocaine in your present formula with novocaine.

Explosion (21/74).—No sample accompanied your letter.

B. M. H. (13/27).—The flea-infested music-hall should be well stoved with sulphur or hydrocyanic acid. You cannot hope to get rid of the fleas by the use of a "pink perfumed solution."

Gaucha (38/71).—FERRATED COD-LIVER OIL.—First prepare a concentrated ferruginous cod-liver oil as follows:

Solution of ferric chloride (10 per cent. Fe)	...	...	20 parts
Water	...	...	500 parts

Dissolve, with the aid of heat—

Hard soap, in powder	...	...	34 parts
Water	...	...	1,000 parts

When cold, pour this solution into the ferric-chloride solution. Collect the precipitate on a thick cloth, wash several times with water, and dry the precipitate on a water-bath. Next add olive oil 30 parts, and stir till dissolved. When cold add sufficient cod-liver oil to produce 200 parts, and, after allowing it to stand for some time, filter.

This concentrated oil is mixed in the proportion of 1 to 4 parts of aromatic cod-liver oil, made as follows:

Saccharin	...	...	0.5
Vanillin	...	...	0.1
Cinnamon oil	0.4
Absolute alcohol	19

Dissolve, and add to—

Cod-liver oil	980 parts
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Eastbourne (37/62).—GROWING MEDICINAL PLANTS.—See *C. & D.*, June 24, p. 52. The Herb-growing Association, 7 (sixth floor) Queen Anne's Chambers, Westminster, S.W., also supply information regarding the cultivation and collection of medicinal plants.

W. J. (31/91).—INFANTS' FOOD.—The theory underlying the addition of gelatin, gum arabic, or white of egg to infants' food, and which explained the advantages of these additions well known in practice, is connected with colloidal chemistry. There are two classes of colloids: "irreversible," those which after drying cannot be redissolved to form colloids; and "reversible," those colloids which are not affected by drying. The addition of a reversible colloid to an irreversible colloid tends to convert the latter into the former. It is found that the casein of milk, an irreversible colloid, forms smaller clots in the stomach when a reversible colloid, such as gelatin or gum arabic, has been mixed with it. It is supposed also that the advantage of human milk over cow's milk in infant-feeding is due to the larger amount of albumen present in the former, which acts as a reversible colloid and prevents the formation of large casein-clots.

F. H. R. (253/41).—MAYONNAISE SAUCE FOR SALADS:

Olive oil	...	...	20 oz.
Powdered acacia	4 oz.
Powdered mustard	1½ oz.

Mix and add all at once—

Distilled water	6 oz.
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Emulsify, then add a small tin of sweetened condensed milk. When well mixed add—

Salt	...	...	3 dr.
Acetic acid	...	...	4 oz.
Vinegar	...	...	14 oz.

If too thick, the consistence can be reduced by adding more vinegar.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," August 15, 1866.

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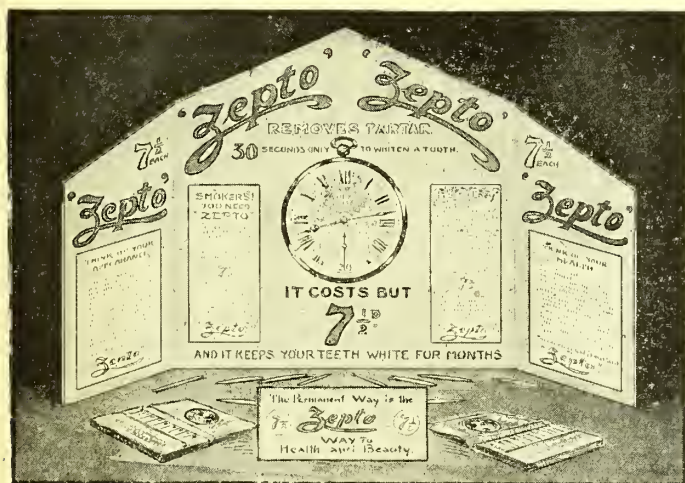
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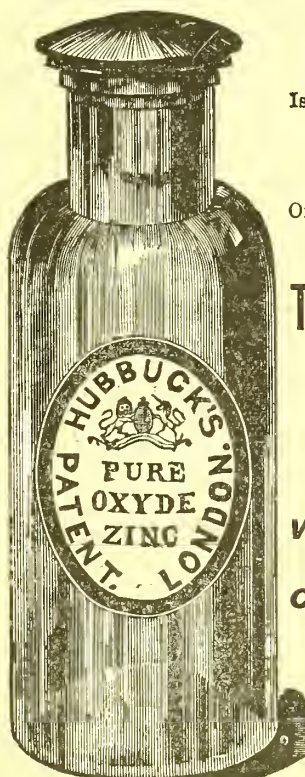
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Fol. Sennæ Tinnev., 1 cwt. @ 10d. lb.; 7 lbs. @ 11d. lb.; English Ground, 56 lbs. @ 1/- lb.; 7 lbs. @ 1/1 lb.
 Formaldehyde, 40%, 4 cwt. barrels @ 69/- cwt.; 7 lbs. @ 1/4 lb.
 Fuller's Earth, fine powder or lump, 5 cwt. @ 8/3 cwt.; 1 cwt. @ 9/6.

Gallæ Cærol. Pulv., 7 lbs. @ 2/- lb.
 Gamboge, English Ground, 7 lbs. @ 5/6 lb.; 1 lb. @ 1 lb.
 Ginger, English Ground, 1 cwt. @ 60/- cwt.; 7 lbs. @ 8d. lb.
 Gingerine, Extra, 5 lbs. @ 13/- lb.; 1 lb. @ 13/6.
 Glycerin, Opt. D.D., 1.260 P.B., 56 lbs. @ cwt.; 12 lbs. @ 1 lb.

*Glycerin. Acid. Boric, P.B., 6 lbs. @ 2/1 lb.
 " Acid. Carbolic, P.B., 6 lbs. @ 1/10 lb.
 " " Acid. Tannic, P.B., 6 lbs. @ 2/5 lb.
 " Belladon. B.P.C., 6 lbs. @ 6/6 lb.; 1 lb. @ 7/- lb.

*Glycerin. Boracic, P.B., 6 lbs. @ 1/6 lb.
 " Pepsin. Acid, P.B., 1 lb. @ 3/3 lb.
 " Plumbi Subacet., P.B., 6 lbs. @ 1/11 lb.

Guaiacol Carb., 1 lb. @ 135/- lb.
 Guaiacol, pure, 1 lb. @ 65/- lb.
 Gum Acacia sorts, 3 cwt. @ 75/- cwt.; 1 cwt. @ 8/- cwt.; 7 lbs. @ 10d. lb.; English Ground Powder, No. 1, 1 cwt. @ 140/- cwt.; 7 lbs. @ 1/6 lb.; No. 2, 1 cwt. @ cwt.; 7 lbs. @ 1/2 lb.

Gum Benzoin, Sumatra, 84 lbs. @ 1/8 lb.; 7 lbs. @ 1/10 lb.

Gum Catechu Nig., English Ground, 1 cwt. @ 105/- cwt.; 14 lbs. @ 1/- lb.

Gum Guaiaci, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.

Gum Juniper, 14 lbs. @ 1/- lb.

Gum Thus Elect., 2½ cwt. @ 48/- cwt.; 28 lbs. @ 52/- cwt.

Gum Tragac. Elect., English Ground, 7 lbs. @ 12/ lb.; 1 lb. @ 12/6 lb.

*Heading (Frothing Ess.), 5 lbs. @ 1/3 lb.

Heliotropine, 1 lb. @ 26/- lb.

Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 52/6 cwt.

Hexamethylenetetramine, 7 lbs. @ 5/3 lb.; 1 lb. @ 5/7 lb.

Honey, Pale Set, Jamaica, 28 lbs. @ 78/- cwt.; Californian, ½ cwt. @ cwt.; 7 lbs. @ 1 lb.

Hydrargyrum, P.B., 10 lbs. @ 5/9 lb.; 1 lb. @ 6/- lb.; Ammon., 28 lbs. @ 7/11 lb.; c.

Creta, 28 lbs. @ 2/6 lb.; Iodid. Rub. 28 lbs. @ 16/6 lb.; Oxid. Rub., 28 lbs. @ 7/6 lb.

Percblor., Lump, 28 lbs. @ 7/9 lb.; Subchlor. 28 lbs. @ 7/6 lb.; Sulph. c Sulph., 28 lbs. @ 7/- lb.; 7-lb. quantities 1d. lb. extra.

3-lb. quantities, 2d. lb. extra, 1-lb. quantities, 3d. lb. extra.

Hydrokinone, 1 lb. @ 40/- lb.

Ichthyol Ammon. chemical equivalent: Ammon.

Ichthosulphonas, B.P. Codex, 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.

*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/8 lb.

" Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/7 lb.

" Bucbu Conc., 1 to 7, 6 lbs. @ 2/8 lb.

" Calumbæ Conc., 1 to 7, 6 lbs. @ 1/1 lb.

" Caryoph. Conc., 1 to 7, 6 lbs. @ 1/3 lb.

" Cascarilla Conc., 1 to 7, 6 lbs. @ 1/6 lb.

" Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/10 lb.

" Gentianæ Co., 1 to 7, 6 lbs. @ 1/3 lb.

" Quassia Conc., 1 to 7, 6 lbs. @ 11d. lb.

" Rhei Conc., 1 to 7, 6 lbs. @ 1/9 lb.

" Rosæ Acid, Conc., 1 to 7, 6 lbs. @ 2/10 lb.

" Senegæ Conc., 1 to 7, 6 lbs. @ 2/7 lb.

" Valerian Conc., 1 to 7, 6 lbs. @ 1/9 lb.

Insect Powder, Opt., English Grd., closed flowers, 7 lbs. @ 3/- lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 28 lbs. @ 1/10 lb.

Iodoform Pulv. B.P., 7 lbs. @ 20/6 lb.; 1 lb. @ 21/- lb.

Iodum, resub. B.P., 7 lbs. @ 18/9 lb.; 1 lb. @ 19/3 lb.

Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Kamala, 7 lbs. @ 1/8 lb.; sifted, 2/- per lb.

Lapis Pumicis, fine powder, 2 cwt. @ 12/6 cwt.; 7 lbs. @ 2d. lb.; lump, 2 cwt. @ 18/- cwt.; 7 lbs. @ 3d. lb.

Licorice Juice, 2-oz. Sticks, 1 cwt. @ 145/- cwt.; 28 lbs. @ 1/4 lb.; 7 lbs. @ 1/5 lb.

*Lin. Aconiti Meth., 5 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.

" Bellad. Meth., 5 lbs. @ 8/3 lb.; 1 lb. @ 8/6 lb.

" Camph. P.B., 40 lbs. @ 10/½ lb.; 9 lbs. @ 1/½ lb.

" Sapo Meth., 9 lbs. @ 1/- lb.

" Tereb. Acet., B.P., 5 lbs. @ 1/1 lb.

Linseed c. Oil, Crushed, 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.

*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 1/5 lb.; 1 lb. @ 1/8 lb.

" Ammon. Aromat., 6 lbs. @ 10d. lb.

" Antim. Chlor. Pure, 8 lbs. @ 10d. lb.

" Arsenicalis, B.P., 7 lbs. @ 5d. lb.; 1 lb. @ 8d. lb.

" Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.

" Bismuth, P.B., 6 lbs. @ 1/7 lb.

" Copaiba Buchu et Cubeb, 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.

" Easton, p.s., 1-3, B.P., 1 lb. @ 3/5 lb.

" Ferri Dialsatus, 6 lbs. @ 1/2 lb.

" Ferri Iod. p.s., 1-7, 1 lb. @ 8/- lb.

" Ferri Perchlor. Fort., P.B., 7 lbs. @ 6d. lb.

" Ferri Phosph. Co. p.s., 1-7, 7 lbs. @ 1/7 lb.

" Hamamelidis, B.P., 6 lbs. @ 1/3 lb.

" Hypophosph. Co. p.s., B.P.C., 1 lb. @ 3/10 lb.

" Iodi Fort, B.P., 5 lbs. @ 7/- lb.

" Morphina Acet. or Hydrochlor., P.B., 6 lbs. @ 4/2 lb.

" Opii Sed., 5 lbs. @ 6/3 lb.

" Plumbi Subacet., P.B., 7 lbs. @ 7d. lb.

" Pruni Virg. p.s., 1-7, 5 lbs. @ 2/9 lb.

" Rhoeados pro Syr., 1 to 7, 5 lbs. @ 2/8 lb.

" Rhei, p.s., 1-7, 6 lbs. @ 2/4 lb.

" Santali Co., 1 lb. @ 4/6 lb.

" Sennæ Dulc., 6 lbs. @ 1/8 lb.

" Sennæ pro Syr. 1-7, 6 lbs. @ 3/4 lb.

" Strychnina Hyd. P.B., 6 lbs. @ 1/11 lb.

" Tolut. pro Syr. 1-7, 6 lbs. @ 1/9 lb.

" Trinitrini, B.P., 1 lb. @ 7/- lb.

Lithia Carb. P.B., 28 lbs. @ 6/- lb.; 7 lbs. @ 6/3 lb.; 1 lb. @ 6/6 lb.

" Citras, B.P., 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/7 lb.; pulv., 3d. lb. extra.

Lycopodium, 7 lbs. @ 11/- lb.

Mag. Calc. Levis, 1 lb. @ 2/3 lb.

" Mag. Calc. Pond., 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

" Mag. Carb. Pond., 7 lbs. @ 11d. lb.

" Mag. Carb. Levis, 1 cwt. @ 70/-; 7 lbs. @ 8½ d. lb.

" Mag. Cit. Gran., 28 lbs. @ 1/5 lb.; 6 lbs. @ 1/6 lb.

" Mag. Sulph., fine druggists', B.P., 1 cwt. @ 19/6; 28 lbs. @ 2½ d. lb.

" Manna, Flake, 14 lbs. @ 5/10 lb.; 7 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.

Menthol, dry white cryst., 60 lbs. @ 10/10 lb.; 5 lbs. @ 11/6 lb.

*Mist. Sennæ Comp., B.P., 20 lbs. @ 8d. lb.; 6 lbs. @ 9d. lb.

Morphina Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 14/- oz.; 16 oz. @ 14/3 oz.; 8 oz. @ 14/6 oz.; 1 oz. @ 15/3 oz.; Pur.

Præcip. Bimeconate or Tart., 1 oz. @ 19/- oz.

Morphina Diacetyl., 4 oz. @ 21/- oz.; 1 oz. @ 21/6 oz.; Hydrochlor., 6d. per oz. less

Myrrh, Gum, English Ground, 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/10 lb.

Naphthalene, Candles, 7 lbs. @ 7½ d. lb.

Nux Areca, 1 cwt. @ 55/- cwt.; 7 lbs. @ 7d. lb.; powder, English ground, @ 80/- cwt.; 7 lbs. @ 9½ d. lb.

Ol. Amygdal. Ang., B.P., 9 lbs. @ 3/1 lb.

Ol. Anethi Ang. B.P., 1 lb. @ 30/- lb.

Ol. Anisi, E.I., 66 lbs. @ 3/8 lb.; 16½ lbs. @ 4/- lb.; 4½ lbs. @ 4/5 lb.; 1 lb. @ 4/8 lb.

Ol. Aurant., 12 lbs. @ 9/6 lb.; 1 lb. @ 10/3 lb.; not guaranteed absolutely pure.

Oil of Bays, genuine W.I., 1 lb. @ 14/6 lb.

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Ol. Caryoph. Ang., B.P., 9 lbs. @ 6/3 lb.; 4½ lbs. @ 6/6 lb.

Ol. Cassia, 16 lbs. @ 4/6 lb.; 6 lbs. @ 4/9 lb.

Ol. Cinnam., 1 lb. @ 32/- lb.; 1 oz. @ 2/3 oz.

Ol. Citronella, 9 lbs. @ 2/3 lb.

Ol. Coco Nucis, finest White, 80 lbs. @ 57/- cwt.; 40 lbs. @ 60/- cwt.

Ol. Eucalypt., P.B., 1 cwt. @ 2/6 lb.; 28 lbs. @ 2/7 lb.; 9 lbs. @ 2/8 lb.

Ol. Geranii Gall. Opt., 1 lb. @ 28/- lb.; 8 1-oz. bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turc., 1 lb. @ 12/6 lb.; 4 ozs. @ 15/- lb.

Ol. Gynocardia, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.

Ol. Juniperi Ligne Exot., 9 lbs. @ 4/6 lb.

Ol. Lavand. ab Flor., 5 lbs. @ 15/6 lb.; 1 lb. @ 16/6 lb.

Ol. Menth. Pip. English, 5 lbs. @ 36/6 lb.; 1 lb. @ 37/6 lb.; Hotchkiss original bots., 21 oz. each @ 15/9 lb.; 6 bots. @ 15/6 lb.; 18 bots. @ 15/- lb.; American, 20 lbs. @ 9/3 lb.; 4½ lbs. @ 9/9 lb.; 1 lb. @ 10/6 lb.; Japanese, 60 lbs. @ 4/7 lb.; 5 lbs. @ 4/9 lb.

Ol. Morrhuæ, 1915, finest non-freezing, 2-gall. tins @ 21/- per gall.

Ol. Myrrbane, 9 lbs. @ 3/- lb.

Ol. Myristica, 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.

Ol. Nucis Pallid., 2 gall. tins @ 7/6 gall.

Ol. Oliva, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 5/2 gall.; 2 gall. tins @ 6/6 gall.

Ol. Origanii Rub., Coml., 28 lbs. @ 2/- lb.; 9 lbs. @ 2/3 lb.

Ol. Peach Kernel (so-called), 1 cwt. @ 1/6½ lb.; 56 lbs. @ 1/7½ lb.; 9 lbs. @ 1/9½ lb.

Ol. Pulegii B.P., 5 lbs. @ 6/6 lb.; 1 lb. @ 6/10.

Ol. Ricini Alb. Opt. Medicinal, 44 lbs. @ 75/- cwt.; 9 lbs. @ 10d. lb.; for export, 1 cwt. cwt. recommended.

Ol. Rosmarini, Coml., 28 lbs. @ 1/9 lb.; 9 lbs. @ 2/- lb.; B.P., 9 lbs. @ 2/7 lb.; 1 lb. @ 2/11 lb.

Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 37/- lb.; 1 lb. @ 37/6 lb.

Ol. Sassafras, genuine, 28 lbs. @ 3/10 lb.; 1 lb. @ 4/5 lb.

Ol. Theobroma, B.P., 8-oz. tabs., 28 lbs. @ 2/11 lb.; 7 lbs. @ 3/- lb.

Ol. Wintergreen, Artificial, 5 lbs. @ 1/- lb.; 1 lb. @ 14/6 lb.

Opium Turc. B.P., 14 lbs. @ 36/6 lb.; 3 lbs. @ 37/6 lb.; 1 lb. @ 38/6 lb.; powder, 6d. lb. extra.

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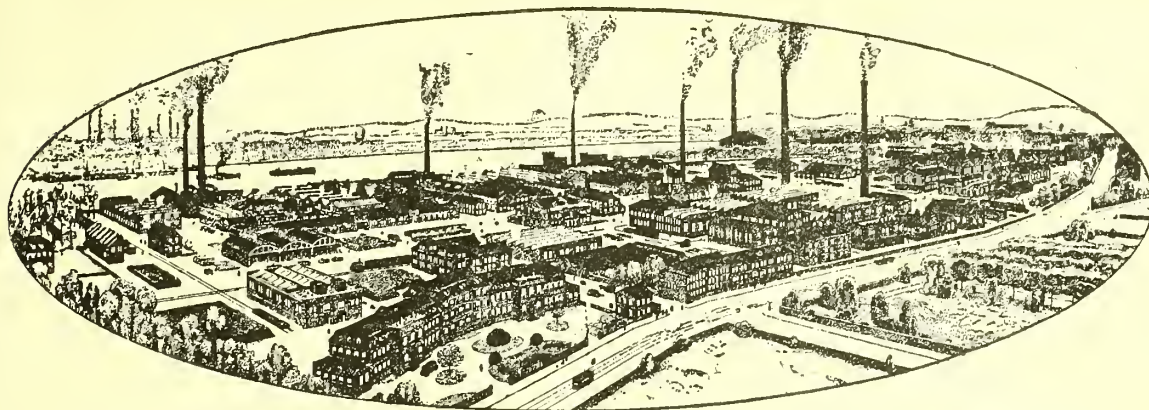
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IN the year 1864 there was established in Basle a private Company for the supply of high-class Pharmaceutical Preparations, which gained so much importance that it was formed in the year 1885 into a Joint Stock Company with a Capital of Ten Million Francs, and is now known as the Society of Chemical Industry in Basle.

NATIONALITY. The Society is administered by a Council of Sixteen Members, all of French and Swiss nationality, and a Board of Directors composed of Seven Members, all of whom are of Swiss nationality.

STAFF. The Society employs 135 Chemists and Technical Experts, 380 Clerks and 2,400 Workmen, and a large number of Draughtsmen and Engineers.

BRANCHES. The principal Works are in Basle, of which the above is an illustration, and at Petit-Hünigüe and Monthey (Switzerland). The business of the Society increased so enormously that it was found necessary to open Branch Works at St. Fons (France), and at Clayton, near Manchester (England). All the Works are furnished with the most complete and modern equipment, those in Basle comprising:—

Analytical Laboratories.
Research Departments.
Physiological Institute.
A Park for animals serving for the study of Pharmacology.
Bacteriological Laboratories.

Laboratories for the study of Organotherapy.
Installation for the manufacture of Ampuls and Sterilising Implements.
Patent Office.
Technical Office.
Workshops for Metallurgy, Boxmaking, Carpentry, etc., etc.

At Petit-Hünigüe there is a modern installation for the manufacture of Formic Acid and Oxalic Acid, from their elements.

At Monthey are important Electro-Chemical Works with Hydraulic Power of about 10,000 H.P., the installation of which cost more than One Million Francs.

The Physiological Institute and the Institute of Pharmacology of the Society of Chemical Industry in Basle run on parallel lines to University establishments, and researches are constantly being undertaken by the Medical Council and Technical Staff of the Society for the utilisation in the Medical Field of substances hitherto unknown; in this way have been discovered:—

Phytin.	Salen.	Peristaltin.	Digifolin.	Euclottin.
Quinine-Phytin.	Salenal.	Lipoiodine-Ciba.	Ferrophytin.	Menthescin,
Fortossan.	Vioform.	Elbon-Ciba.	Dial-Ciba.	etc., etc.

Each preparation before it is adopted for medical use is tested on animals, and on proving satisfactory is submitted to a large number of Hospitals for Clinical and Therapeutic trial, and the results considered by the Medical Council of the Society before distributing to the Medical Profession generally.

A matter of primary importance is the purchasing of suitable raw materials, which is entrusted to a special staff controlled by Doctors and Pharmaceutical Chemists. No expense or trouble is spared in the preparation of the various Pharmaceutical Products to maintain the highest standard of perfection, and every stage in the preparation of these drugs is controlled with scrupulous exactitude which lends entire confidence to all products bearing the House Mark "Ciba."



Sole Agents in the United Kingdom:

THE SACCHARIN CORPORATION, Ltd.,
(Pharmaceutical Dept.)

36 & 37, QUEEN STREET, LONDON, E.C.

GENUINE
Lysol



Always ask for
the "L" Brand

Why trouble to stock others when this meets
all requirements? No explanations needed.
It sells itself. Most advertised — most in
demand. Your customers will ask you for

"L" Brand British Lysol

Obtainable of the leading Wholesalers.
SPECIFY "L" BRAND WHEN ORDERING

The Fly Season's in Full Swing

THE BEST ANTI-FLY CREAM IS

Flysol

In tubes, carded, retail at 4½d.; & in cartons

ORDER FROM YOUR WHOLESALER TO-DAY

4½d. size carded in half-dozens - **36/- gross**
Large size in cartons (no price) - **72/- gross**

LYSOL, LTD., WARTON ROAD, STRATFORD, E.

There is a Red Cross or Military Hospital in your Town, and Doctors and Nurses are asking us where they can obtain Sphagnol Soaps & Ointments. These inquiries are the result of our publicity scheme by which every Nurse and Doctor is receiving samples of Sphagnol Preparations. Some most remarkable testimonies and orders are reaching us. We do not mind receiving testimonies, *but you must have the orders.*

Will you stock Sphagnol Soaps and Ointments and enable us to send you all local inquiries?

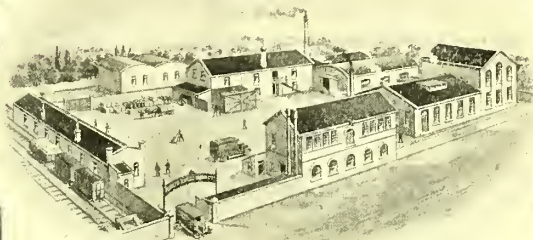
Sphagnol is a distillate of Peat, and is being professionally recommended as a First-Aid Dressing, as a cure for Skin Diseases, Insect Bites, etc., and has received the certificates of the Institute of Hygiene.

LIST OF PRICES & Discounts
on request.

Peat Products (Sphagnol) Ltd.,
19 Queenhithe, LONDON.

PEERLESS SEAMLESS RUBBER CO., LTD.

Works ... RICHMOND, SURREY.
WHOLESALE & EXPORT ONLY.



BEST QUALITY ENGLISH MADE
TRANSPARENT AND BLACK

Feeding Bottle & Soother Teats & Valves.

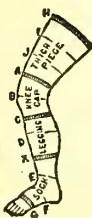
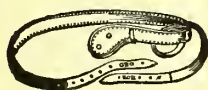
SAMPLES AND QUOTATIONS ON REQUEST.

J. H. HAYWOOD, LTD.

Castle Gate, NOTTINGHAM.

ESTABLISHED 1833.

Surgical Appliance Manufacturers.



Inventors of Seamless Elastic Hosiery

Specialities:

BELTS, TRUSSES, SUSPENDERS, BRACES,
DRUGGISTS' SUNDRIES.

Write for Price List.

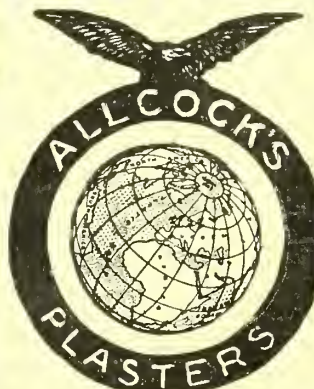
ESTABLISHED 1847.

Allcock's PLASTERS

REMEDY OF 60 YEARS' STANDING.

Allcock's Plasters
Allcock's Corn and
Bunion Plasters
Brandreth's Pills

*The
Three
Reliables.*



Prices and Terms
on
application to

ALLCOCK
MANUFACTURING
COMPANY

22 Hamilton Sq.,
Birkenhead.

"Sold all round the World."

FREDK. FINK & CO.,

10 & 11 MINGING LANE, LONDON, E.C.

SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense.

APPLY TO

AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Helens, LONDON, E.C.

Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

E. CRAWSHAW & CO.,

56 Great Dover Street, S.E.

ANILINE DYE MERCHANTS,

are still selling their well-known Aniline Dyes to retail in Penny Packets.

Telephone: Hop 4992. Teleg. Address: "Cachous London."

Send for Revised Price List.

ROYLANCE & CO.,

Dental Mechanics,

Castle Chambers,

Hounds Gate, NOTTINGHAM.

DISINFECTANTS

OF ALL KINDS

: Cheapest Makers of Co-efficient Acids and Fluids

HENRY ELLISON, LTD., CLECKHEATON, YORKS**SPONGE BAGS. BATHING CAPS.
WASHING GLOVES.**

Write for prices to

THE GALEN MANFG. CO., Ltd.

Wilson St., New Cross, London, S.E.

**FORMALDEHYDE 40%
LACTIC ACID.**

WHOLESALE. FOR SPOT DELIVERY

Harry Heymann, 5 Union Street, Bradford.

**CACHETS "FINOT"**

(White or Coloured),

With inscriptions in any desired tint; also Plain or Embossed.

"Beautifully made, and the inscriptions give them a distinction all their own."—C. & D.

"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia and other powders

COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.

In Ten Sizes. Also supplied to fit existing machines.

JOHN E. RAWORTH

CHARTERED PATENT AGENT.

PATENTS, TRADE MARKS AND DESIGNS.

THE OLD MANSION HOUSE, and QUEEN ANNE'S CHAMBERS, 73 Cheapside, E.C. WESTMINSTER, S.W.

Van Horn and Sawtell
—LONDON AND NEW YORK—
MAKERS OF**"K-Y" LUBRICATING JELLY**

IN COLLAPSIBLE TUBES AND OF

"Van Horn" Sterile Sutures and Ligatures

IN GLASS TUBES — PRICES ON APPLICATION

91-99 HIGH HOLBORN, W.C.

CACHETS "PELTOT"

ALL SIZES 2/6 per 1000 PLAIN OR EMBOSSED

Carriage Paid on orders of 5000. Write for Samples.

Sole Agent **CICERO S. CLARK,** Pharmacie Française, 12 Richmond Rd., WESTBOURNE GROVE, LONDON, W.**SANITARY FLUIDS**

CO-EFFICIENT 3, 12, and 18/20.

Low quotations for barrel lots and upwards.

C. A. STOKES & CO. Ltd., 51/55 Lower Castle Street, BRISTOL.**100 COPIES in Ten Minutes**

of Prescriptions, Handwriting, Typewriting, Drawings, Specifications, Shorthand, Maps, Invoices, Music, Menus, etc., on the

PLEX DUPLICATOR

15s., Foolscap Size.

Complete with all supplies. Carriage Paid.

B. PODMORE & Co., Duplicator Specialists, SOUTHPORT

SPECIAL OFFER.—Typewriter Carbon Paper, 3/9 per box of 100 Sheets. 4to or fcap.

TEETH

Highest Quality Porcelain Tough, Enduring Pine.

Sample set of 28 Diatorics 2/6. Set of 6 Pin Teeth 1/6

EASTERN DENTAL MFG. CO. Ltd., East Molesey, Surrey**British-made
ANILINE DYES
FOR FOOD STUFFS, ETC.**

Lowest Prices for Egg Yellow, etc.

J. & T. HOYLE & CO.,

312 Deansgate, Manchester.



SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses:

TRIAL BOTTLES 6d. size, supplied on pretty showcards.
4/6 doz.; 1/- size, 10/- doz.; 3/6 size 30/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

TOBACCOS ! CIGARS ! CIGARETTES !

Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods & Shop Fittings. The Trade only supplied Opening orders a Speciality. Send for Price List.

SINGLETON & COLE, LTD., Cannon Street, BIRMINGHAM AND BRANCHES.

HOT-WATER BOTTLES

BEST ENGLISH MAKE

JAMES TOMPKINS LIMITED

ALL KINDS OF SURGICAL RUBBER GOODS. ESTAB 1877 Rubber Manufacturers. 386, City Rd., London E.C.



Radium Bath Salt.

A week's Radium Treatment for Rheumatism, Neuritis, Insomnia, &c.

Descriptive Booklet and information as to further Radium preparations from

RADIUM SALT COMPANY, Ltd.
Telephone—21 Farringdon Ave., LONDON, E.C.
273 Holborn

In your own Bathroom, for 5/9
33 1/3% to the Trade.

GOOD LINES FOR CHEMISTS.

HONEYS in 1/2 lbs., 1/4 lbs., and 1 lbs.
LEMON CURD (made with pure butter), in 12 oz., 6 oz., and 3 oz.
BEESWAX, 48, 32, 16, 8, and 2 to the lb. (avoirdupois).

A. GORDON ROWE, 28a Moy Rd., CARDIFF.
Price Lists on Application.

SURGICAL RUBBER & VULCANITE Goods

Douche Fittings, Douche Tubing, Syringes, Teats, &c.

HIGGIN, Ltd.
265 DEANS GATE, Manchester.

of every description.

BAKING POWDERS.

Particulars of how cheapened, and how quality maintained, on application to

WALFORD & CO. LTD., Collyhurst, MANCHESTER.

Specialists also in Dry Flavours for Custard Powders, etc., and Pure Colours for Food-stuffs.

Lepto advertised 9d. P.A.C.A. 7 1/2d. 4/6 dozen.

WOULD you like a show that incurred no risk and sold this line NOW? That's the interesting proposition we should like to tell you about if we may.

CHRISTYS, OLD SWAN LANE, E.C.

SOLUBLE QUININE PESSARIES



The "SAFEGUARD" Pessaries (of which we are sole proprietors) are compounded according to a formula which experience has shown to be absolutely the best for the purpose. Nothing but the purest drugs being used in them, they never fail, and can be recommended to customers with the utmost confidence.

PRICES.						£	s.	d.
1 Dozen in Box, with directions	...	...	...	...	...	0	12	0
1 " " in 3 Dozen lots	...	...	...	...	...	0	11	6

Special Quotations to Shippers and Wholesale Dealers.

5% discount allowed for prompt cash off above prices. Carriage paid on orders of £2 and upwards to any town in the United Kingdom. We are the right House for BRITISH-MADE GOODS—Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushions, Waterproof Sheetting, and every description of Rubber and Vulcanite Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.,

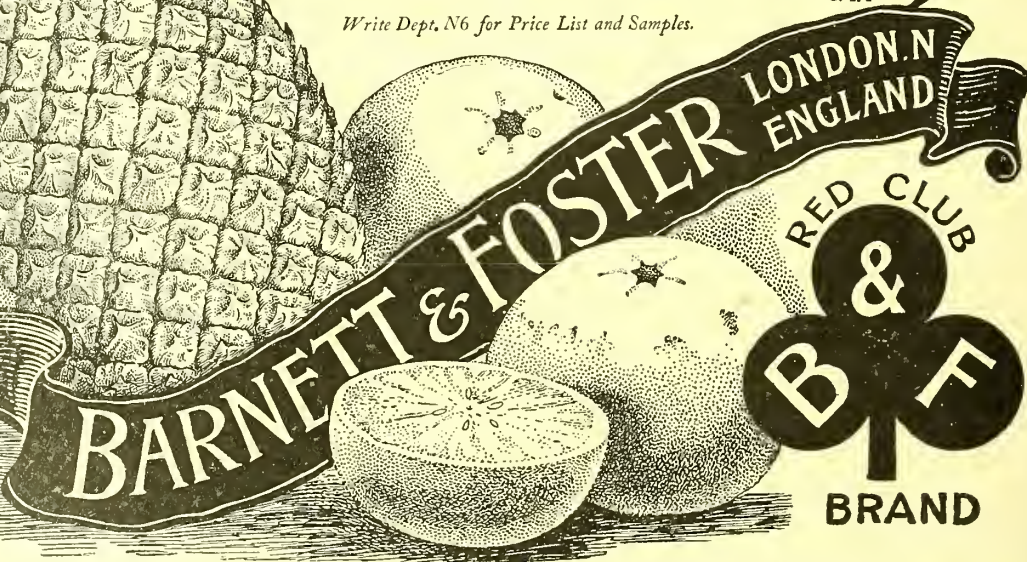
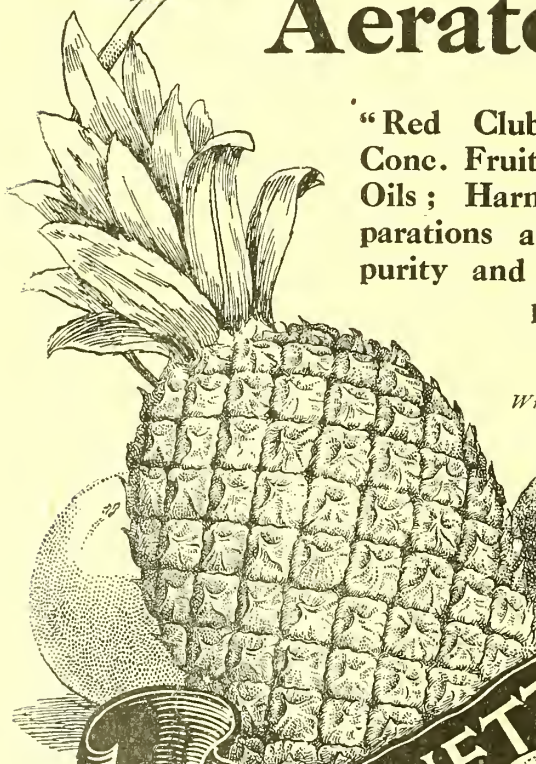
91 & 92 GREAT SAFFRON HILL, LONDON, E.C.



FOR
Aerated Waters

"Red Club" Brand Conc. Soluble Essences ;
Conc. Fruit and Flavouring Essences ; Essential
Oils ; Harmless Colourings and Heading Pre-
parations are famed the world over for the
purity and refreshing flavour of the beverages
prepared with their use.

No. 171

Write Dept. N6 for Price List and Samples.



THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, AUGUST 12, 1916.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 2617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

← This is what advertisers in The Chemist and Druggist Supplement secure. Not indefinite returns from spasmodic and inflated circulation, but regular, steady success—the best possible in the Drug Trade. It gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of **SALE, PURCHASE, and VALUATION.**

1.—OXFORD STREET (Few Doors From).—Attractive shop, capably situated; returns, present rate, £12 weekly; scope for considerable development under good management; lock-up Pharmacy; long lease; price £500.

2.—KENT (Suburban).—Family Retail and Dispensing Business; no Panel; established many years; returns show a steady increase, last year's turnover being about £1,000; net profit £300; attractive shop, double-fronted; rent £45; comfortable residence, with garden; price about £650.

3.—BRISTON (By Order of the Trustee).—Retail and Dispensing Business, well established; returns about £16 weekly; to effect a speedy transfer no reasonable offer will be refused; excellent opening for a good-class Chemist with small capital at command.

4.—LONDON, N. (Middle-class Suburb).—Brisk ready-money Business, situate in shopping thoroughfare; returns about £1,100; net profit £450; price about £600.

5.—CITY (10 Minutes From).—Ready-money Business; good position in main shopping thoroughfare; returns between £900 and £1,000; profits above the average of Retail trade; price about £325.

6.—SOUTH OF ENGLAND.—Retail and Dispensing; all good-class business; returns £825; net profit over £300 (proof given); full investigation permitted; price £650.

7.—GREAT NORTHERN LINE.—Unopposed Business; returns £825; good profits; comfortable residence, with bathroom and offices, flower and kitchen gardens; rent £25; price £400.

8.—INLAND WATERING-PLACE.—Established Business, Dispensing and Retail; returns upwards of £3,000 per annum; vendor would consider a Partnership with a view to the income taking up the whole within a given period.

9.—SOUTHERN COUNTY.—Unopposed Business, very old-established; returns about £850; net profit exceeds £250; exceptionally good residence, with garden and outbuildings; price £400; this is much below market value.

10.—SOUTH WALES (Large Town).—Retail and Dispensing, together with Wines; returns £1,500; excellent premises, situate in main thoroughfare; vendor desires to take up an appointment, and for a quick sale will accept the value of stock and fixtures.

11.—SUSSEX (High-class Watering-place).—For Disposal, through death, good-class Dispensing Business, with Optics; returns between £1,400 and £1,500, present rate less; profits above the average; further details on application.

12.—SURREY (Within Easy Distance of London).—Dispensing and Retail; all good middle-class business; returns £1,000; net profit between £250 and £500; good position in close proximity to railway station; price about £700.

13.—WILTS.—Retail and Dispensing, with Wines and Spirits; established many years, and held by vendor about 28; returns last year £1,562; good-sized house, with garden attached; terms, goodwill £50, stock and fixtures by valuation.

14.—BRISTOL CHANNEL (Health Resort).—Neglected Business; returns about £500; excellent opening for a pushing man; terms, valuation of stock and fixtures.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

PARSON C. BAKER

Pharmaceutical Chemist,

TRADE VALUER AND TRANSFER AGENT.

Recommended by British Drug Houses, Ltd.; Meggeson & Co.; Barclay & Son.
Tel. No.: FINCHLEY 812.

VALUATIONS, ESTIMATIONS, EXAMINATIONS, AND FULL REPORTS, Town or Country, on moderate terms.

No charge whatever to vendors or purchasers except by agreement.

Personal Attention
to every detail.

40 years' Valuation
experience.

CORRESPONDENCE INVITED.

1 MOUNTFIELD RD., CHURCH END, FINCHLEY, N.

THOS. TOMLINSON & SON

**CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,**

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

- 1.—WEST OF ENGLAND.—Old-established good-class Country Retail; returns approach £4,000; net profit about £1,000; splendid position; market town; fine premises; owner retiring; price £2,500; splendid chance for two smart men.
- 2.—N. WALES (Death Vacancy).—Good Family Retail and Dispensing, in popular health resort; returns £500; no sidelines; plenty of scope; low rent; large shop; fine position; same hands 20 years; price £200, or valuation.
- 3.—EASTERN COUNTY.—Unopposed Country Retail and Agricultural; returns £830; net profit £200; nearest Chemist 7 miles; very good house, bathroom, etc., large garden; family reasons sole cause of sale; price £400.
- 4.—SUSSEX COAST (Rising Town).—Well-established Light Retail Business, in good unopposed position; returns about £650; scope for increase; net profit £180; splendid house, nice garden; price only £275.
- 5.—MIDLANDS (Death Vacancy).—Light Family Retail and Agricultural, in pleasant market town; easy hours; returns £900; net profit £300; good opening for Photo and Optics; one other Chemist; price £425, or first reasonable offer.
- 6.—LONDON, S.E.—Working Partner required in good middle-class suburban business; returning £1,000, no Panel; fine position; good residence; price for half share £370; incoming Partner's share of profits would exceed £200 a year.
- 7.—NORTH LONDON.—Good middle-class Retail; pleasantly situated; returns £850; attractive shop; good stock; price £300 or valuation; personally inspected and recommended.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application.

Why you should have stock taken is very clearly defined on page 135 of the *C. & D. Diary* for this year. Have you read it?

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

TRADING WITH THE ENEMY AMENDMENT ACT, 1916.
In the matter of Wagner Bros., Merchants and Dealers in Surgical Instruments, Dental Materials, and Druggists' Sundries.

FOR Sale, as a going concern, this old-established Business successfully carried on by the Proprietors.

The Stock-in-Trade, Utensils, and Fixtures can be taken over at a valuation, or a cash offer will be entertained.

The book debts can be assigned if desired, and a reasonable offer for the Goodwill considered.

Bona-fide purchasers can obtain further information by arranging a personal interview with the Controller, A. C. Bournier, Chartered Accountant, Bushlane House, Cannon Street, E.C.

SOUTH COAST.—Genuine Cash Retail; returns £16 to £18 weekly, last three weeks £18, £18, £19; customers served during last two weeks, 1,203; price £295, or near offer; bargain. Apply, 148/6, Office of this Paper.

OLD-ESTABLISHED Country Business, with Wine Licence, for Sale in a good market town; plenty of scope for increase in the hands of a qualified man; nice shop with a good house, capable of quick recovery and considerable extension; about £200 will purchase; rent £50. "Sparks" (148/30), Office of this Paper.

THRIVING Business, with exceptional scope, growing town in Kent; no opposition; population 5,000; low price for quick sale; unusual opportunity; returns over £700; energetic owner could easily increase. Apply, 149/31, Office of this Paper.

SALES BY AUCTION.

Under a Deed of Assignment. By order of the Trustee,
G. Montague White, Esq.

294 BRIXTON HILL, LONDON, S.W.

THE VALUABLE AND WELL-ASSORTED STOCK of a
CHEMIST AND DRUGGIST,

also the HANDSOME MODERN MAHOGANY SHOP FITTINGS, including high-class Perfumery, Toilet Soaps, Brushes and Combs, Patent Medicines, A. & H. and other Infants' Foods, Toilet Powders, Dentifrices, Sponges, Bandages and Dressings.

PROPRIETARY ARTICLES AND FANCY GOODS,

1,000 BOTTLES OF WET AND DRY DRUGS,

LARGE QUANTITY OF USUAL CHEMISTS' SUNDRIES,
Photographic Materials, Cameras, etc.

FIVE VERY HANDSOME SOLID MAHOGANY CHEMISTS' BACK FITTINGS,

70-ft. run, fitted Mirror Backs, 80 Drawers and Plate-glass Doors, a 15-ft. ditto Centre Counter with Showcase Front, Plate-glass Centre and Counter Cases, Handsome Dispensing Counter with Perfumery Cases over, 8-day Dial, Chairs, Steps, Plate-glass Show-stands, Shelves, and Brackets,

TWO MIRROR-LINED WINDOW ENCLOSURES,

30-in. Iron Fire-resisting Safe, Cash Till, Mahogany Counter Desk, Scales, Pestals and Mortars, etc., fine old Curved Rosewood Tank Top Table, Linoleum, Gas Stove, Gas and Electric Fittings, etc., which will be SOLD BY AUCTION by

MR. FRANK G. BOWEN,

on the Premises as above, on THURSDAY, AUGUST 17th, 1916, at 2 o'clock precisely.

On view day prior and morning of Sale.

Catalogues may be had of Messrs. Francis Nicholls, White & Co., Chartered Accountants, 14 Old Jewry Chambers, E.C.; on the premises; and of the Auctioneer, 62a Aldersgate Street and Hare Court, London, E.C. Telephone, 1861 Central.

BUSINESSES WANTED.

WANTED, a small Drug Store near London, or few miles out; convenient house. Write, giving full particulars, to "E." (147/11), Office of this Paper.

FOR SALE.

A MIXING Machine, hand or power driven; capacity $6\frac{1}{2}$ to 15 lb.; never used practically; will sell cheap. A. Mitchell, 23 Waterford Street, Dublin.

CHEMIST wishes to dispose of discarded shop-fittings and surplus stock. "Pharmacist," 17 Shalimar Gardens, Acton, W.

FOR Sale.—Entire fixtures of Chemist's shop, Counters, Show-cases, Nests of drawers, Shop Rounds, Jars, etc.; can be seen in shop. Apply, J. Savage & Co., Chemists, 254 Manchester Road, Bradford.

FOR Sale, an excellent Remedy for Gout, Rheumatism, kindred diseases, a Medicine and Embrocation, having been supplied locally in Bournemouth for six years with great success and numerous testimonials from all classes; fully protected with trademark; would sell the whole or part; a great success. 16 Hankwood Road, Boscombe.

GOOD Second-hand Cash Till; still guaranteed; must sell; made by National Company; going cheap. Dickins, 49 Robert Street, Hampstead, N.W.

OVERSTOCKED.—10 doz. 1s. $1\frac{1}{2}$ d. Valda Pastilles, 9s. $\frac{7}{8}$ d. doz.; 10 doz. $7\frac{1}{2}$ d. Bird's Corn flit, 3s. $\frac{3}{4}$ d. doz.; 3 doz. 1s. 6d. Anturic Bath Salts, 9s. doz.; all minus war stamps; carriage paid. What offers for the lot? Albion Drug Stores, Ltd., Shipley.

PHENACETIN B.P., 3iv., for 20s.: 1,000 Tab. Phenacetin Caffeine for 60s.; 3 lb. Metal Mercury @ 5s. per lb.; $\frac{1}{4}$ lb. Salol, 9s.; Brown's Automatic Water Filling cost £2 2s. for 25s. Hitchcock, Chemist, Greenhill Lane, Alfreton.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

AGENCIES Wanted.—A firm of General Importers, Indentors, and Manufacturers' Agents have opening for Agencies of all kinds; splendid situation Melbourne business centre; fine naturally lighted showrooms and large windows; reference, Commonwealth Bank of Australia. E. Duncan & Co., Strand Buildings, 152 Elizabeth Street, Melbourne.

AGENCY.—Advertiser, with offices in Cheapside and an established connection with Wholesale Druggists' Sundries and Surgical Appliance houses and Shippers, is open to act as Agent for another house supplying the Wholesale trade only; an established house and well known to the trade preferred; bankers' and other references given. Apply, "Wholesale" (149/16), Office of this Paper.

ENERGETIC person, experienced, well introduced, will undertake Sole Agencies after war for Holland and Dutch Colonies only for the Chemist and Druggist branch. Letters to Mr. H. F. Tillema, Groningen, Holland.

FIRM with offices Tokyo and London offers services on commission for purchase of Japanese Drugs and Chemicals, Druggists' Sundries, Glassware, Bottles, etc., or will act as Factor; samples of requirements if possible; large quantities only; references exchanged. Apply, "F. W. H." (158/34), Office of this Paper.

FIRM with connections in Latin America open to Agencies for Crude Drugs, Sundries, Chemicals, and Proprietary Medicines for the Argentine and other Latin Republics, also for Puerto Rico and the Philippines; prices to compete with American duties in the two countries last named; good English commercial and banking references. Apply, 146/31, Office of this Paper.

QUALIFIED Pharmacist, with many years' travelling experience amongst Chemists and Stores in Lancs and Yorks for a Manufacturing firm of Food Specialists, wishes to Represent, on commission or otherwise, similar firm or other allied trade; highest reference; only good-class Houses entertained or standard products handled. 147/18, Office of this Paper.

PARTNERSHIPS.

MANAGING Partner wanted, married, and of good standing and address, to take charge of high-class Dispensing business in town; capital required £1,250 for half-share (part of which might remain); total income in return approximately £600 per annum. This is a really good opportunity for thoroughly reliable gentleman. Apply to "X." (147/30), Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK AUG. 5 1916

NATURE OF ADVT.	REPLIES
JUNIOR (UNQUAL)	12
ASSISTANT	12
TRAVELLER	10
ASSIST (QUAL)	10
BRANCH MGR.	9

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BECKENHAM.—Unqualified Assistant required for good-class Retail and Dispensing business; outdoors; good salary and reasonable hours. Apply, Timmie, 147 Mason's Hill, Bromley, Kent.

BRIGHTON.—Assistant required, ineligible for military service, or lady Assistant with Pharmacy training; outdoors; hours 9 a.m. to 8 p.m.; no Sunday duty. State commencing salary, experience, and enclose photo, to Black & Co., 133 Western Road, Hove.

BRISTOL.—Qualified Manager and experienced unqualified Junior for Light Cash Retail in pleasant suburb; good scope and prospects. Please state usual particulars to Stokes, Chemist, Bristol.

CASTLEFORD.—Wanted immediately, competent Assistant; qualified or unqualified; ineligible or over military age; outdoors. Apply, stating age, height, references, and salary required, to T. C. Binks, Chemist, Castleford.

CHELMSFORD.—Wanted at once, young gentleman, well up in Dispensing and brisk Counter work, with Photography; good references and total abstainer; ineligible. Apply, stating age, salary required (hours easy), Herbert Clarke, 31 High Street, Chelmsford.

CHELTHENHAM.—Assistant for Dispensing business. Apply, with full particulars, Thomas Bros., Montpellier, Cheltenham.

FAVERSHAM.—Assistant wanted, used to Retail and Dispensing; gentleman ineligible for the Army or a lady; no duties. Apply, with reference and salary required (outdoors), to Thomas, Chemist, Faversham.

FOLKESTONE.—Assistant, ineligible, outdoors, for high-class Light Retail and Dispensing business; easy hours; good salary offered to capable man. Photo and usual particulars to Messrs. Ransford & Cuninghame, 36 Sandgate Road, Folkestone.

GLOUCESTER.—Trustworthy Assistant; smart, accurate Dispenser; capable; lady with Minor qualification preferred, otherwise experienced man (qualified or unqualified), ineligible for Army service. State age, salary required (outdoors), and all other particulars, to W. H. Hampton, 86 Northgate Street, Gloucester.

HARROGATE.—Wanted, unqualified Assistant, indoors; also a Junior or Improver (young lady not objected to). Apply, stating age, height, references, and salary required, to A. B. Payton, Crown Pharmacy, Harrogate.

HERNE HILL, S.E.—At once, smart Junior or lady Assistant, with knowledge of Photography and Dispensing; outdoors. G. W. G. Robinson, M.P.S., 307 Raiton Road, Herne Hill, S.E.

KENT.—Old-established firm have a vacancy for smart young lady; must be a good Dispenser and have had some experience at the Counter; permanency, with progressive salary. "Kent," (146/1), Office of this Paper.

KIDDERMINSTER.—Capable, unqualified Assistant wanted; outdoors; must be good Dispenser; knowledge of Optical and photographic trade an advantage. References and usual particulars to Morgan & Lawley, Kidderminster.

LANCASHIRE.—Qualified Manager required for suburban business near large industrial centre; business has been well managed, and now presents an excellent opportunity for North Country man anxious to settle down; must be married, of good character, and possess energy and ability; liberal interest in the profits given. "A. R." (146/100), Office of this Paper.

LIVERPOOL.—Wanted, qualified Manager, ineligible, or lady capable of taking complete control, for Branch in industrial Lancashire town; N.H.I. and general Retail. Apply, Welch, Pharmacist, Freshfield, near Liverpool.

LONDON, N.—Unqualified Assistant; reliable reference only accepted; good salary to experienced and capable Dispenser and Counter hand. Apply, stating usual particulars, to 147/39, Office of this Paper.

LONDON, S.E.—Death vacancy.—Well-stocked Business for Sale; large N.H. Insurance Dispensing; good opportunity for an active man. Apply to Mr. H. Pellow (Executor), 374 Old Kent Road, S.E.

LONDON, S.W.—Wanted, a qualified Assistant. Apply, with full particulars, to Amore & Co., 173 Sloane Street, S.W.

LONDON, W.—Capable Assistant wanted; qualified; good salary for suitable man; outdoors. Apply, stating usual particulars, to John Atkins, Chemist, 109 Queen's Road, Bayswater, W.

LONDON, W.—Assistant; gentleman, ineligible for the Army; good Dispenser. Apply, with references and salary required, to Thompson, Pharmaceutical Chemist, 31 The Grove, Ealing, W.

LONDON, W.C.—Assistant wanted temporarily for two or three weeks to replace permanent Assistant for holidays, qualified or unqualified, at once. J. W. Roberts, 10 Tavistock Place, Russell Square, W.C.

MANCHESTER.—Wanted, qualified man, Manchester district; comfortable berth for elderly person. Send all particulars to "Quillol," c/o John Quilliam & Co., Ltd., Canterbury Works, Victoria Bridge, Manchester.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

NEAR Manchester.—Wanted immediately, qualified Assistant; exceedingly easy position, easy hours; suit elderly man; no Sunday duty; half-day weekly; principally N.H.I. work; applicants must have good references. Full particulars and salary required to 148/29, Office of this Paper.

NEWPORT, MON.—Competent Assistant wanted immediately. State age, experience, salary required (outdoors), Badgett, Chemist, Newport, Mon.

SOUTH OF ENGLAND.—Assistant required; experienced; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

STOWMARKET.—Mr. Gostling is desirous of filling a vacancy in his Light Retail and Dispensing business, for lady or gentleman Assistant; hours light; no Sunday or Bank holiday duty; references to former Assistants if required. Apply, giving salary required, etc., to 29 Ipswich Street, Stowmarket.

TREDEGAR.—Wanted shortly, unqualified Assistant; young; ineligible. Usual particulars and salary required to Griffiths, Chemist, Tredegar, Mon.

WIGAN.—Wanted, qualified lady Dispenser; rooms provided. Apply, stating age and experience, to "Surgeon," 15 Upper Diccorison Street, Wigan.

WINCHESTER.—Lady Dispenser and Bookkeeper wanted at once; experienced; light work; salary £2 a week. Dr. Roberts, Twyford, nr. Winchester.

WOLVERHAMPTON.—Locum Tenens, qualified, wanted, for fortnight; outdoors. State age, experience, reference, and salary, Reade Bros. & Co., Ltd., Wolverhampton.

WORCESTER.—Young qualified Assistant wanted for temporary assistance, for two or three weeks; outdoors; light duties and hours of business. H. J. Aubrey, 25 Cross, Worcester.

YORK.—Managing Assistant required for highest-class Pharmacy; one who is willing to also Manage first-class Ladies' and Gentlemen's Hairdressing Saloons, and occupy position of trust. Write fully, E. B. Kendall & Son, 6 Coney Street, York.

A YOUNG Junior Assistant wanted for the Retail Counter; experience in Dispensing not necessary; no Sunday duty; outdoors. The Prosser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, S.E.

ALSOP & QUILLER, 137 Sloane Street, S.W., require a competent Assistant; ineligible or beyond the military age; outdoors. Apply, with full particulars, or personally, to A. W. as above.

AN Assistant for Branch, single-handed; trade small and light; could be easily improved; apply, with fullest particulars, salary, age, experience, and reference; vacancy end of month. "Hyde" (148/300), Office of this Paper.

ASSISTANT wanted for high-class Dispensing business. Particulars of experience, age, height, and salary, to W. Hill, c/o J. G. Barnes & Son, 205 Knightsbridge, S.W.

ASSISTANT wanted at once for about a month, Dispensing, assist Stock, etc.; good salary paid; also Junior for permanency. Apply, Guests, Chemists, Tooting Broadway, S.W.

ASSISTANT in Surgical Instrument business for Front shop; must be accustomed to Instruments or Deformity work; address, stating age, abilities, and wages expected. Reply 136/6, Office of this Paper.

ASSISTANT with good experience wanted, not eligible for Army. Apply personally, or if by letter state age, height, salary required (in- or out-doors), and enclose photo, Hooper, Struve & Co., 26 Davies Street, London, W.

COMPETENT Assistant required; ineligible; outdoors. Full particulars to Nathl. Smith & Co., High Street, Cheltenham.

DISPENSER required at once; full employment and permanency; previous experience essential, and interview desirable. Address, Dr. Thornton, 573 Romford Road, Forest Gate.

DRUG Store Manager; London; good Counterman, Window-dresser, and business increaser essential; no Sunday duty or Dispensing; on practically sharing terms. State in first letter age, recent salary, and experience for past few years, 147/23, Office of this Paper.

JUNIOR Assistant for Chemical Laboratory; must have had some training; good opportunity. Apply, with full particulars, to "C," Messrs. E. T. Pearson & Co., Ltd., London Road, Mitcham.

LADY Dispenser wanted at once for Medical Practice in small residential town near London; outdoors. Apply, stating age, experience, salary required, etc., to 146/13, Office of this Paper.

LEWIS & BURROWS, Ltd., require the services of an experienced Dispenser. Apply, in writing, to 146 Holborn Bars, E.C.

LOCUM Tenens wanted for early in September; qualified or unqualified. Apply, "Quibell," The Station Pharmacy, Golders Green.

LOCUM, qualified, early September, for about a month; North-East Coast; abstainer; outdoors; state salary, references. Apply, 147/27, Office of this Paper.

LOCUM, qualified, for two weeks, within the next two months; London, W.; Store trade. 148/13, Office of this Paper.

LOCUM, qualified, for September, for City business. Apply, stating age, salary required, etc., to Henry Lamplough, Ltd., 113 Holborn Circus, E.C.

LOCUM wanted for fortnight in September; room and gas provided. Apply, Howard, 4 Napier Road, Kensington.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects.

NOT necessarily qualified, but must be a capable all-round man, for firm in the Midlands doing a good Light Retail and Photographic trade, employing three Assistants; permanency. Apply, stating salary and full particulars, to "Midland" (147/13), Office of this Paper.

OUTDOOR Assistant, lady or ineligible for the Army; accurate Dispenser essential; business includes Veterinary Preparations, Light Retail, Mineral Waters, and Photography. Salary required and full particulars to Ernest F. Bathurst, Pharmaceutical Chemist, Woburn Sands, Beds.

QUALIFIED Manager required for an old-established Family Retail and Dispensing business; business is in a very progressive condition, and offers splendid scope to a man of about 46 years of age anxious to take his coat off and do really well; every encouragement given. 146/102, Office of this Paper.

QUALIFIED Manager required for modern business; must be good Counterman and Dispenser; every inducement offered to a first-class man; vacancy in the provinces. 146/101, Office of this Paper.

QUALIFIED Chemist required (lady not objected to), to Manage small Limited Company business in London. Apply, with full particulars, to 42/23, Office of this Paper.

SMART Junior, ineligible, or lady, wanted immediately for Packing, Counter, and general duties. State salary required, experience, and when disengaged, to J. Edmunds & Co., Ltd., 33 High Street, Kingsland, London, N.E.

UNQUALIFIED Assistant; if married live on premises; good house and garden; Midland county town. 147/8, Office of this Paper.

UNQUALIFIED Assistant; ineligible; active and reliable; would suit Junior or elderly man or lady with some experience. Give particulars and wages required, Grant's Drug Stores, 33 Chatsworth Road, N.E.

WANTED, Locum for three weeks from September 4. Apply, E. Gould & Son, 59 Moorgate Street, E.C.

WANTED at once, an elderly Chemist requiring a very light post for a few hours daily in Hampstead district. Apply, 146/15, Office of this Paper.

WANTED, Manager, at once; lady or gentleman; Locum or permanency; good salary. Apply, 60 Watney Street, Stepney, E.

WANTED, unqualified Assistant; ineligible for Army; South Wales. Apply, stating age, experience, and salary required, to 145/9, Office of this Paper.

WANTED, qualified Assistant, chiefly for Dispensing. Apply, Pooley, 36 High Street, Wimbledon.

WANTED, unqualified Junior or young lady for Counter trade and Insurance Dispensing; middle-class Mixed business. State age, experience, references, and salary required (outdoors), J. W. Heath, Chemist, Hucknall Torkard.

WANTED, Locum for about fortnight; outdoors. State references (recent), age, terms, and all particulars in first letter, Neale, Mortimer Street, Herne Bay.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

SOUTHERN Counties.—Drug Traveller wanted; experience necessary. State age, connection, and salary required, 38/40, Office of this Paper.

DRUGGISTS' Sundries.—A position is vacant as Head Buyer and Organiser in a large firm; only applications from a man with exceptional abilities, initiative, and knowledge of the trade would be entertained. Write, in first instance, with short particulars, to "D." (42/25), Office of this Paper.

EXPERIENCED Forewoman wanted, Packed Drugs; knowledge of business essential. Apply by letter, stating age, experience, and salary required, Box 1219, Haddon's Advertising Offices, Salisbury Square, London, E.C.

GELATINE Foil.—Capable Manager wanted for Factory; must be conversant with latest methods; excellent prospects for suitable man. Apply, "G. E." (38/72), Office of this Paper.

GLASS Bottle Department.—Capable man; Buying knowledge necessary. Apply, stating age, experience, and salary required, Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

INVOICE Clerk required, either sex (if male must be ineligible). Apply, giving full particulars, in confidence, and state age and salary required, to Jas. L. Hatrick & Co., Ltd., 70 St. John Street, E.C.

LABORATORY Assistants wanted, both for Chemical and Pharmaceutical Laboratories. Apply, stating age and experience, to "H. M. H.," c/o Burgoyne, Burbidges & Co., Ltd., East Ham.

PILL Maker wanted at once. Apply, 232 Goswell Road, London, E.C.

TRAVELLER required for South Coast and Eastern Counties, for old-established Drug House; good permanent position for a first-class man who knows the ground. Write, with full particulars, to "T." (42/250), Office of this Paper.

USEFUL man wanted for London Laboratory, Manufacturing Chemists; capable of looking after Receipt and Despatch of Goods preferred. Apply, stating age, experience, and salary required, to 42/37, Office of this Paper.

WANTED, man for the Manufacturing of Toilet Preparations, Tooth-pastes, etc. State fully experience and salary expected, 148/20, Office of this Paper.

WANTED, youth with some Chemical training for Laboratory of Manufacturing Chemists; good opportunity for suitable Junior. Apply, with full particulars, to "C.," Messrs. E. T. Pearson & Co., Ltd., London Road, Mitcham.

WANTED for a provincial Wholesale Drug House, an Assistant for Wet Counter; previous experience essential; ineligible for military service. Apply, giving full particulars as to experience, salary required, age, etc., to "Gentiau," (148/15), Office of this Paper.

WANTED, by London house, Assistants for Wet and Dry Counters; also Laboratory hands; non-eligible for military service. Apply, stating age, wages required, and previous engagements, to "Druggist" (41/45), Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; **6d.** for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

NAIROBI, British East Africa.—Qualified Assistant required; exempt from military service; young man who has passed his Minor about three years; agreement for three years; salary £20, £25, and £30 per month respectively; passage paid out and home. Apply "G. K.," Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

ADVERTISER, 30 years' good business experience, is open to immediate offer, either permanent or otherwise; Midlands district. Smith, 36 Winter Street, Sheffield.

AS Locum, permanency; excellent references and experience. "G.", 19 Old Christchurch Road, Bournemouth.

AS Branch Manager; disengaged; qualified; above military age; active; would work up neglected business; country preferred. 148/4, Office of this Paper.

ASSISTANT, 23 years, tall, unqualified, 8 years used to brisk Counter, Window-dressing, Packing, but little Dispensing, certified rejected, excellent references, requires permanency; Laues or Yorks preferred. Edmondson, 24 Oxford Street, Morecambe.

CERTIFIED lady Dispenser desires Locum work (anywhere); booked up to September 7; or permanency London. Miss Stevenson, 15 Brunswick Street, Newcastle, Staffs.

DAUGHTER of Pharmaceutical Chemist, partly qualified, some business experience, wants part-time berth in good Dispensing business, or Assistant Dispenser in Hospital. 147/10, Office of this Paper.

DISENGAGED.—Assistant or Locum; thoroughly competent, experienced, reliable. "W. B. D.", Elmwood, Cookham Deau, Berks.

DISPENSER (Hall qualification), thoroughly experienced, desires evening Dispensing or clerical work in London; permanent or temporary. Apply, 145/40, Office of this Paper.

DISPENSER, ineligible, desires post immediately; Doctor's preferred. "B.", 28 Gildersome Street, Woolwich, S.E.

DISPENSER requires situation; Hall certificate; ineligible; experienced; S.E. Counties preferred. "Moore" (147/7), Office of this Paper.

ELDERLY Pharmacist, M.P.S., seeks permanency; outdoors; good-class experience; small salary for light duties; Midlands or South preferred. 146/39, Office of this Paper.

EVENINGS, Saturdays 2 p.m., occasional Sundays; qualified; 42. "Pharmacist," 5 Claverton Street, S.W.

EXPERIENCED Assistant, over 30 years' London and Provincial experience, requires situation as Manager or otherwise; accustomed to the usual routine of a Chemist's business, including Photography; ineligible; ten years present situation. Particulars "Vita," 4 Churchill Avenue, Birkenhead.

IMPROVER; 2 years' experience; tall, smart; 16½. "Decotum," 58 Essex Road, Willesden.

JUNIOR, unqualified, ineligible, 4 years' experience, desires berth in good-class Dispensing business. A. E. Carter, 1 Lord Street, Sowerby Bridge.

LADY Dispenser (Hall) requires post, in or near London preferred, or Locum. 146/33, Office of this Paper.

LADY Dispenser seeks afternoon employment locally. "M. C.", 8 Kingsley Road, Forest Gate, E.

LADY Dispenser, part qualified, some experience, desires post, Doctor or Hospital; disengaged August 15. 146/3, Office of this Paper.

LADY Dispenser, qualified, experienced, desires post with Doctor or in Institution; would do Locum. Address, 147/16, Office of this Paper.

LOCUM; qualified; 45; now disengaged; good experience and references. "Rhei" (147/3), Office of this Paper.

LOCUM; 30 years' wide experience, Pharmaceutical and Institutional; good credentials; qualified; disengaged. Smith, 36 Winter Street, Sheffield.

LOCUM; experienced, London and provinces; qualified; disengaged. "Thionin" (147/28), Office of this Paper.

LOCUM or Assistant.—Lady with training and experience in Dispensary is at liberty September and October; has references; in Southampton or within cycling distance. 147/38, Office of this Paper.

LOCUM will undertake light duties on Lancashire or North Wales Coast; qualified; 47; good references. Address, "Chemist," 7 Sparthfield Avenue, Rochdale.

LOCUM or permanency; competent Dispenser and organiser. Forster, 54 Romilly Road, Finsbury Park, N.

LOCUM Manager or permanency; qualified; 43; high-class and N.H.I. Dispensing; also Photographic experience; London preferred. Anderson, 9 Grantbridge Street, N.

LOCUM or otherwise; disengaged; London or provinces. "Rhei," 37 Upper Kennington Lane.

MANAGER or Assistant; 45; competent Dispenser and Counter-man; single; unqualified; disengaged. "B.", 45 Thornhill Road, Handsworth, Birmingham.

MANAGER, qualified, disengaged September, requires post in London; permanency; good experience and references. 146/7, Office of this Paper.

MANAGER, qualified, thoroughly up-to-date, wants situation as Manager or Buyer, or would undertake light duties only; good references; 47. "Chemist," 7 Sparthfield Avenue, Rochdale.

MANAGER or Locum; 48; energetic; experienced; reliable; increase Branch or easy succession; disengaged August 12; unregistered. Address, "Statim," 1 Alexandra Mansions, Clapham, S.W.

PERMANENT Manager or Locum; abstainer; thoroughly competent and trustworthy; interest or early succession entertained; London or near; unqualified. "E." (149/33), Office of this Paper.

PHARMACIST, M.P.S., requires position as Manager; experienced; excellent credentials. Apply, 146/32, Office of this Paper.

POST required as Dispenser to Doctor in Cornwall, by lady with six years' experience; references. Apply, 146/11, Office of this Paper.

QUALIFIED Locum; permanency; first-class experience, Dispensing Counter, Photography; fluent French; excellent references; disengaged. "Pharmacist," 15 Speenham Road, S.W.

QUALIFIED; 43. Full details first letter, Barker, Chemist, Woodbrook, Oldham.

QUALIFIED, Locum or permanent; good experience. "Salix," 49 Elizabeth Street, Belgravia, S.W.

QUALIFIED; elderly; single; reasonable hours, moderate salary; London or near. 147/36, Office of this Paper.

SITUATION wanted as Junior Dispenser; Yorkshire, Harrogate preferred. Apply, 147/24, Office of this Paper.

UNQUALIFIED Assistant (46), desires change; Dispensing, Counter, and Photography; Bristol or Weston preferred; permanency. Apply, stating salary, hours, etc., to "Thermos," 49 Graville Road, Thornton Heath.

YOUNG lady desires post as Dispenser; Liverpool or district; some shop experience. Apply, 146/18, Office of this Paper.

WHOLESALE.

ADVERTISER (35), desires berth with enterprising firm where organising abilities combined with original ideas and a sound all-round knowledge of the Drug and Allied trades would be of use; good Correspondent. 149/310, Office of this Paper.

ADVERTISER, experienced Drugs, Chemicals, Manager, with view to share later, small Wholesale House, Chemicals, etc., or Manufacturing Agent for Patent Articles, Drugs, etc., or position required. Apply, 141/21, Office of this Paper.

EXPERIENCED in general organisation, Pharmacy and Therapeutics, and Advertising (medical and public), ineligible, qualified, age 32, permanency required. Apply, 146/29, Office of this Paper.

GENTLEMAN with Medical qualification wishes to Represent a Speciality House. 146/9, Office of this Paper.

LADY, Minor, desires post, Analytical Laboratory, Manufacturing Chemist; some experience; Edinburgh district. 147/35, Office of this Paper.

PHARMACEUTICAL Chemist possessing practical Manufacturing experience, requires post immediately; accustomed to the production on the large scale of Galenicals, Soluble Essences, Malt Extracts, Capsules, Compressed Tablets, Toilet and Packed Lines, Fine Chemicals, including Scale Preparations, Bismuth Salts, Acetanilide, Sulphocarbolates, etc.; expert Analyst; efficient worker, and able to control Laboratory staff. Apply, 147/22, Office of this Paper.

TRAVELLER, qualified Chemist, requires re-engagement; experienced, energetic, successful; excellent selling record and connection with Chemists, Stores, Institutions, and general; intimate knowledge Drug, Sundries, Essence, Disinfectant, etc. trades; first-class references; ineligible Army; disengaged 147/20, Office of this Paper.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST, AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE.

"The Chemist and Druggist," 42 Cannon Street, London, E.C.
Bromural powder or tablets Laevulose, any quantity (148/16) (146/34)
Indigo blue (synthetic) Pot. permang. (149/19)
(149/19) Salvarsan, .4 or over (148/16)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Phenacetin 8 oz. (149/22) Salol 8 oz. (149/22)
Pot. permang. 28 lb. (40/66)

MISCELLANEOUS.

SHOWCASES and SHOPFITTINGS.—6-ft. Bent Counter Case, 75s.; 11-ft. Glass-fronted Serving Counter, £8 5s.; Plate-glass Sponge Case, 77s. 6d.; Perfume Case and Desk, 42s. 6d.; 6-ft. Wall Case, £8 17s. 6d. Write for particulars of anything you want. Hundreds of other bargains. **PHILIP JOSEPHS & SONS, LTD.**, 93 Old Street, London, E.C. Established over 90 years.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **RUDDUCK & CO.**, 262 Old Street, London, E.C.

VERY handsome Mahogany and Plate-glass Wall Case, Second-hand, 16 feet long, in two heights, with Plate Mirror Recess, curved door heads and pilasters—a great bargain, £31 10s.; 3 feet 6 inch by 6 feet 6 inch Silent Salesman, Plate glass, fitted three shelves on bars and brackets, £12 15s.; Perfume Case and Desk, with carved pediment, 52s. 6d. **PHILIP JOSEPHS & SONS**, 93 Old Street, London, E.C. Established over 90 years.

CHEMIST'S good second-hand 12-ft. Mahogany Drug Fitting, 6-ft. Mahogany Dispensing Screen and Counter, 4-ft. Mahogany Wall-case, 10-ft. Glass-fronted Counter; Nest of Counter Drawers; Perfumery Case and Desk; 4-ft. Bent Glass Counter Case; the lot £45; bargain; cheapest house for Window Enclosures, Mirrors, Glass Shelves, modern Shop Fronts, Improvements, etc.; plans prepared; estimates free. Mills, Shopfront, Shopfitting, and Glass Facia Works, 163-165 Old Street, London, E.C. Phone London Wall 550.

CORNFLOWER, 1½ cwt. cotton-lined bags, London delivered @ price, per ton £22, cwt. 23s. **Phillips & Co.**, 61 Wootton Street, London, S.E. Telephone 2182 Hon.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

DRUGS AND CHEMICALS.

WHAT offers? 1 lb. hydrokinone. Craven, 18 Bridgehouses, Sheffield.

CATTLE cod-liver oil, one barrel, 42 galls.; what offers? Whitlock, Holsworthy.

4 doz. 1s. 3d. To-Kalon preparations for disposal, 1s. 3d. doz., cream, santonex, etc. Ballingall, 449 Gt. Western Road, Glasgow.

OFFERS wanted for resorcin, 6 oz.; pot. permang., 2 lb.; phenacetin, 8 oz.; 12 × 25's phenacetin cuff, tablets. Graham, Pharmacist, Burnley.

4 lb. lin. bellad. meth., 4 oz. quinine hydrochlor., 4 oz. bismuth. salicylat., 3 oz. resorcin, 2 oz. phenazonum, ½ doz. (50's) Gonosan capsules; what offers? C. E. Donnelly, "Ltd.," 284 Derby Street, Bolton.

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SULPHONAL. Quantity and price to "V.," 119 Okehampton Road, Exeter.

WANTED, B.P. 1914, Pharmaceutical Formulas, Secret Remedies, latest. McMullan, Chemist, Larne.

WANTED, half-drachm squat vials, new or second-hand, any quantity. 278 Bishopsgate, London.

WANTED, Sparklet syphon chargers and syphons, new or second-hand; also empty bulbs. Address, "Riversdale" (144/19), Office of this Paper.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

SCOTT'S Structural Botany, Parts I., II.; Edser Heat for Advanced Students; Edser Light; Thompson Elementary Lessons in Magnetism and Electricity; Greenish Microscopic Examination of Food and Drugs, last edition essential. Tierman, Colville Road, Boscombe.

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Austrian News.

NIGHT DISPENSING is to be limited in future in Budapest. Just before the war in 1914 the pharmacists were by a decree compelled to dispense at any time all substances asked for which were in stock. The Association of Pharmaceutical Assistants appealed against this decree, which emanated from the Budapest Municipal Council, and as a consequence the Burgomaster has ruled that pharmacists need not after closing-hours dispense skin pastes and powders and other cosmetics, hair washes and dyes, tooth powders and pastes, depilatories, toilet-soaps, mineral waters, worm-remedies, copaiba and sandalwood capsules, ammonia, benzine, insect-powder, and articles of similar nature.

CULTIVATION OF MEDICINAL PLANTS.—The Genossenschaft Herba, which has been founded in Austria and of which many pharmacists are members, is to place the cultivation of medicinal plants upon a more satisfactory basis. A list of plants which should be cultivated has been drawn up, those which are urgently wanted being *Angelica archangelica*, *Carthamus tinctorius*, *Chrysanthemum cinerariæ*, *Digitalis purpurea*, *hydrastis*, *Inula Helenium*, peppermint, and spearmint. The following are mentioned as the drugs which should be collected on a large scale: *Rad. acori*, *fol. uvæ ursi*, *rad. filicis maris*, *secale cornutum*, *sem. et fruct. cynosbati*, *fruct. sambuci*, *flores tilie*, and *stipites cerasorum*. The cultivation on a very large scale is recommended of *asclepias*, *soya*, *sesame*, *white and black mustard*, *caraway*, *anise*, *coriander*, and *fennel*.

DEARTH OF DRUGS.—The Minister of the Home Department has published a warning for physicians and pharmacists with regard to the strict economy that must be practised with several medicaments. The publication deals with nine groups of products—namely, (1) fats and fixed oils; (2) drugs and products of vegetable origin; (3) chemicals; (4) albumin preparations; (5) cotton-wool; (6) rubber; (7) metals; (8) precious metals; (9) mercury. As to the first group, it is recommended that edible fats and oils be only used in the preparation of medicaments, in cases where they cannot be substituted by other substances—for instance, in the case of an oily solution of camphor used for subcutaneous injection. Fixed oils should not be used for the preparation of liniments and cosmetics. Vaseline oil, vaseline, paraffin, spermaceti, and glycerin should be used for the preparation of ointments in the place of fixed oils and fats. Lanoline, and many fixed oils, such as linseed oil, sesame oil, cottonseed oil, earthen oil, olive oil, castor oil, cod-liver oil, and oil of theobroma, are extremely scarce, most of these being unobtainable. Soap enemas should be used in place of oil enemas. Sunflower oil is mentioned as an excellent substitute for olive oil. The second group is subdivided into different sections. The laxatives—castor oil, senna-leaves, cascara sagrada, aloes, senna-pods, and Chinese rhubarb are very scarce. In their place the use of magnesium sulphate, sodium sulphate, phenolphthalein, frangula-bark, and preparations thereof are recommended. Home-grown rhubarb-root can also be used as a laxative, but quantities twice as large as the Chinese rhubarb will be needed to get the effect of the latter. With regard to the alkaloids, caffeine and quinine must be used with the greatest economy. Cinchona-bark can in certain cases be replaced by gentian-root. Opium alkaloids, atropine, cocaine, and scopolamine are not yet scarce, but their prices are very high. Starch may not be used for pharmaceutical and cosmetic purposes; it can be replaced by talc in special cases. Hydrastis and its preparations should be replaced by ergot of rye, as hydrastis is very scarce and dear. For the same purpose synthetic hydrastinin and styptin (stypol, etc.) can be used. In the place of ippecacuanha and senega, which are scarce and dear, quillaia and saponaria can be used, so long as supplies last. Camphor, natural as well as synthetic, is only indispensable for medicaments for internal use and for subcutaneous injections; for liniments it can easily be dispensed with, and for warding off moths naphthalene can be used. As linseed is required for pressing oil, it should not be used for other purposes. The oilcake is an excellent food for cattle. Peru balsam and synthetic substitutes—*e.g.*, perueen—can only be had in very small quantities. In surgical practice ichthvol can be substituted for it, and in the dermatological practice an ointment containing birch-tar oil will replace it. Storax, too, is very scarce. The third group of medicaments—chemicals—are nearly all very dear, as most of them are manufactured in foreign countries. Special economy should be practised with boric acid, citric acid, and all bismuth salts, and also with alcohol, ether, and similar products, for the preparation of which carbohydrates are required. In the place of

potassium chlorate, required for the manufacture of explosives, hydrogen peroxide, tincture of myrrh, and in some cases alum, can be used. Iodine and iodine salts are also scarce. Bismuth salts (subgallate and tribromphenylate) can be replaced by iodoform, isoform, novoioidine, etc., as disinfectants. Bismuth carbonate for Röntgen-ray examination can be replaced by barium sulphate.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1916, p. 365.

(From the "Trade-marks Journal," July 26, 1916.)

"LA PLUS BELLE DES FLEURS," "MAYFAIR," and "MON DESIR," each with miniature device (wording disclaimed); for perfumery, etc. (48). By Yardley & Co., Ltd., Stratford. 373,381/2/3. (Associated.)

"CARDINAL RED," with picture of same; for perfumery, etc. (48). By G. W. Goodwin & Son, Manchester. 373,391. (Associated.)

Device of bath and globe, for perfumery, etc. (48); "REUDEL BATH SALTRATES" on scroll, for bath-preparations (48). By Tokalon, Ltd., 212-214 Great Portland Street, W. 373,485, 373,486. (Associated.)

"MINUET"; for perfumery, etc. (48). By Warrick Bros., Ltd., 6 Nile Street, City Road, N. 373,636.

Sun device, also words "SUN BRAND"; for a drape for preserving and waterproofing fabrics (50). By the Willesden Varnish Co., Ltd., 8 Hythe Road, Willesden, N.W. 373,350/1. (Associated.)

(From the "Trade-marks Journal," August 2, 1916.)

"BONOL" for medicinal chemicals (3), and for all goods (48). By D. Luxemburg, 85 Regent Street, W. 372,968/69.

Oblong device with word "CANDA"; for medicated skin-preparations (3). By Clay & Abraham, Ltd., 87 Bold Street, Liverpool. 372,999. (Associated.)

"AMERIND"; for an insecticide (3). By E. Moore, 52A Cromwell Road, S.W. 373,445.

"PEARLOIDS"; for food-substances (42). P.V. the Giltspur Co., Ltd., 21 Cannon Street, E.C. 372,721.

"CROMFAC" and label device; for an aerated water (44). By W. A. Ross & Sons, Ltd., 17 and 19 William Street, South, Belfast. 373,201. (Associated.)

"SOLUOL"; for a lubricant and steel-cutting agent (47).

By T. Howse, Ltd., Union Street, Smethwick. 372,802.

"IDOL"; for a dentifrice, etc. (48). By A. J. Nathan & Co., 24 New Bridge Street, E.C. 373,174.

(From the "Trade-marks Journal," August 9, 1916.)

"ARSULTINE"; for a plant-wash (2). By The Yalding Manufacturing Co., Ltd., near Hampstead Lane, Yalding. 373,677.

"PAVON-CIBA"; for a medicinal opium preparation (3). By Society of Chemical Industry in Basle, 141 Klybeckstrasse, Basle. 373,467. (Associated.)

"KEROCAINE"; for anaesthetics (3). By T. Kerfoot & Co., Bardsley Vale Mills. 373,550.

EXPORT PRICES OF MEDICAMENTS.—The "Pharm. Zeitung" lectures the Austrians for objecting to paying exorbitant prices for German medicaments (see *C. & D.*, July 8, p. 50). The German contempt for Austria and Hungary extends apparently to economic life. The "Pharm. Zeitung" writes that nobody need wonder at the indignation this war measure has aroused in Switzerland and Holland. These are neutral countries which have no special bond with any of the belligerent nations. It is quite another case, however, with Austria-Hungary, and the "Pharm. Zeitung" is indignant at the manner in which this matter has been treated by its Austrian contemporary, the "Zeitschrift des Allgemeinen Oesterreichischen Apotheker-Vereines." It resents the way in which Austrian pharmacy turns against Germany in this matter as not bearing witness of political tact. The German paper states that the Austrian pharmaceutical Press would have done better to keep silence about the matter until the Conferences between the German and Austrian Governments have come to an end. The "Zeitschrift des Allgemeinen Oesterreichischen Apotheker-Vereines" retorts by charging the "Pharm. Zeitung" with giving a political tinge to a mere economical question, and further states that long before Conferences about this matter were held between the Governments concerned the Austro-Hungarian pharmaceutical Press had declared most energetically that the situation is quite untenable for Austrian pharmacists. Moreover, these Conferences have not led to any result.

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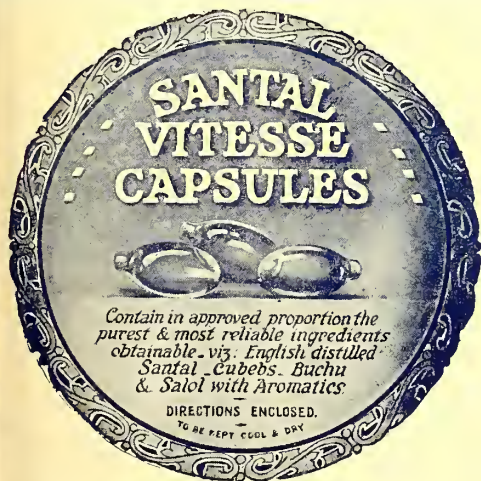
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